

Table S1 Detailed information of *Salmonella* genomic sequences.

Serogroup	Serovar	Assembly	Serogroup	Serovar	Assembly	Serogroup	Serovar	Assembly
B	Paratyphi B	GCA_486185.1	B	Agona	GCA_483795.1	D	Dublin	GCA_3069745.1
B	Paratyphi B	GCA_486665.1	B	Agona	GCA_1244465.1	D	Dublin	GCA_3069865.1
B	Paratyphi B	GCA_2034115.1	B	Agona	GCA_388955.1	D	Dublin	GCA_3070265.1
B	Paratyphi B	GCA_2033905.1	B	Agona	GCA_484275.1	D	Dublin	GCA_3069825.1
B	Paratyphi B	GCA_1614145.1	B	Agona	GCA_2058085.1	D	Dublin	GCA_3069885.1
B	Paratyphi B	GCA_1613965.1	B	Agona	GCA_3120155.1	D	Dublin	GCA_3070205.1
B	Paratyphi B	GCA_1614125.1	B	Agona	GCA_388835.1	D	Dublin	GCA_3065985.1
B	Paratyphi B	GCA_2058475.1	B	Agona	GCA_389295.1	D	Dublin	GCA_3066165.1
B	Paratyphi B	GCA_486645.1	B	Agona	GCA_389475.1	D	Dublin	GCA_3070165.1
B	Paratyphi B	GCA_1466355.1	B	Agona	GCA_389275.1	D	Dublin	GCA_3070145.1
B	Paratyphi B	GCA_484015.1	B	Agona	GCA_389215.1	D	Dublin	GCA_3070285.1
B	Paratyphi B	GCA_1614015.1	B	Agona	GCA_389575.1	D	Dublin	GCA_3066025.1
B	Paratyphi B	GCA_486685.1	B	Agona	GCA_389235.1	D	Dublin	GCA_3066605.1
B	Paratyphi B	GCA_486705.1	B	Agona	GCA_388755.1	D	Dublin	GCA_3070325.1
B	Paratyphi B	GCA_486625.1	B	Agona	GCA_388915.1	D	Dublin	GCA_3066125.1
B	Paratyphi B	GCA_2034145.1	B	Agona	GCA_389175.1	D	Dublin	GCA_3069625.1
B	Paratyphi B	GCA_2034065.1	B	Agona	GCA_389155.1	D	Dublin	GCA_3065965.1
B	Paratyphi B	GCA_1466365.1	B	Agona	GCA_2030065.1	D	Dublin	GCA_3069765.1
B	Paratyphi B	GCA_486605.1	B	Agona	GCA_388355.1	D	Dublin	GCA_3069935.1
B	Paratyphi B	GCA_2065255.1	B	Agona	GCA_388395.1	D	Dublin	GCA_3070305.1
B	Paratyphi B	GCA_18705.1	B	Agona	GCA_1649455.1	D	Dublin	GCA_3070225.1
B	Paratyphi B	GCA_3121035.1	B	Agona	GCA_388415.1	D	Dublin	GCA_3065925.1
B	Paratyphi B	GCA_3117625.1	B	Agona	GCA_388995.1	D	Dublin	GCA_3070105.1
B	Paratyphi B	GCA_486205.1	B	Agona	GCA_388455.1	D	Dublin	GCA_3070005.1
B	Chester	GCA_2046865.1	B	Agona	GCA_389195.1	D	Dublin	GCA_3070245.1
B	Chester	GCA_2047045.1	B	Agona	GCA_1050855.1	D	Dublin	GCA_3065995.1
B	Chester	GCA_2046725.1	B	Agona	GCA_389075.1	D	Dublin	GCA_3066285.1
B	Chester	GCA_2046965.1	B	Agona	GCA_388515.1	D	Dublin	GCA_3066625.1
B	Chester	GCA_2048115.1	B	Agona	GCA_388635.1	D	Dublin	GCA_3069965.1
B	Chester	GCA_487255.2	B	Agona	GCA_388855.1	D	Dublin	GCA_3070125.1
B	Bredeney	GCA_2047245.1	B	Agona	GCA_388495.1	D	Dublin	GCA_3070605.1
B	Bredeney	GCA_2047285.1	B	Agona	GCA_388875.1	D	Dublin	GCA_3066185.1
B	Bredeney	GCA_2047265.1	B	Agona	GCA_389095.1	D	Dublin	GCA_3069665.1
B	Bredeney	GCA_2048365.1	B	Agona	GCA_389315.1	D	Dublin	GCA_3066135.1
B	Bredeney	GCA_2048415.1	B	Agona	GCA_388435.1	D	Dublin	GCA_3066665.1
B	Bredeney	GCA_2048505.1	B	Agona	GCA_388815.1	D	Dublin	GCA_3065905.1
B	Bredeney	GCA_2063755.1	B	Agona	GCA_388655.1	D	Dublin	GCA_3066825.1
B	Bredeney	GCA_1271405.1	B	Agona	GCA_388795.1	D	Dublin	GCA_3066985.1
B	Bredeney	GCA_1478645.1	B	Agona	GCA_389535.1	D	Dublin	GCA_3069645.1
B	Bredeney	GCA_487775.2	B	Agona	GCA_389115.1	D	Dublin	GCA_3069905.1
B	Stanleyville	GCA_2266245.1	B	Agona	GCA_389515.1	D	Dublin	GCA_3070185.1
B	Stanleyville	GCA_2266325.1	B	Agona	GCA_388535.1	D	Dublin	GCA_3070385.1
B	Stanleyville	GCA_487935.2	B	Agona	GCA_388335.1	D	Dublin	GCA_3070505.1
B	Typhimurium	GCA_973985.1	B	Agona	GCA_388375.1	D	Dublin	GCA_3065885.1
B	Typhimurium	GCA_292755.1	B	Agona	GCA_388475.1	D	Dublin	GCA_3070085.1
B	Typhimurium	GCA_1026705.1	B	Agona	GCA_388735.1	D	Dublin	GCA_3070445.1
B	Typhimurium	GCA_1042425.1	B	Agona	GCA_389335.1	D	Dublin	GCA_3066045.1
B	Typhimurium	GCA_1027585.1	B	Agona	GCA_388195.1	D	Dublin	GCA_3069725.1
B	Typhimurium	GCA_1027595.1	B	Agona	GCA_388575.1	D	Dublin	GCA_3067125.1
B	Typhimurium	GCA_1027605.1	B	Agona	GCA_484335.1	D	Dublin	GCA_3070535.1
B	Typhimurium	GCA_1027615.1	B	Agona	GCA_389255.1	D	Dublin	GCA_3066485.1
B	Typhimurium	GCA_1034525.1	B	Agona	GCA_389455.1	D	Dublin	GCA_3066645.1
B	Typhimurium	GCA_1034585.1	B	Agona	GCA_389395.1	D	Dublin	GCA_3066265.1
B	Typhimurium	GCA_1034595.1	B	Agona	GCA_389435.1	D	Dublin	GCA_3070065.1
B	Typhimurium	GCA_1034605.1	B	Agona	GCA_388615.1	D	Dublin	GCA_3066365.1
B	Typhimurium	GCA_1038095.1	B	Agona	GCA_388895.1	D	Dublin	GCA_3066965.1
B	Typhimurium	GCA_1038105.1	B	Agona	GCA_388315.1	D	Dublin	GCA_3070585.1
B	Typhimurium	GCA_1034565.1	B	Agona	GCA_388595.1	D	Dublin	GCA_3067145.1
B	Typhimurium	GCA_1038165.1	B	Agona	GCA_388215.1	D	Dublin	GCA_3070045.1
B	Typhimurium	GCA_1038035.1	B	Agona	GCA_388295.1	D	Dublin	GCA_3070525.1
B	Typhimurium	GCA_6945.2	B	Agona	GCA_388255.1	D	Dublin	GCA_1246165.1
B	Typhimurium	GCA_22165.1	B	Agona	GCA_388695.1	D	Dublin	GCA_3066775.1
B	Typhimurium	GCA_27025.1	B	Agona	GCA_389495.1	D	Dublin	GCA_3066805.1
B	Typhimurium	GCA_213635.1	B	Agona	GCA_388235.1	D	Dublin	GCA_1247195.1
B	Typhimurium	GCA_430145.3	B	Agona	GCA_388675.1	D	Dublin	GCA_3065865.1
B	Typhimurium	GCA_486345.2	B	Agona	GCA_484355.1	D	Dublin	GCA_3067005.1
B	Typhimurium	GCA_493535.2	B	Agona	GCA_389355.1	D	Dublin	GCA_3066225.1
B	Typhimurium	GCA_828595.1	B	Agona	GCA_388275.1	D	Dublin	GCA_3066505.1
B	Typhimurium	GCA_941015.2	B	Saintpaul	GCA_483975.1	D	Dublin	GCA_3070405.1

B	Typhimurium	GCA 1293505.1	B	Saintpaul	GCA 486545.1	D	Dublin	GCA 3070485.1
B	Typhimurium	GCA 1454965.1	B	Saintpaul	GCA 1833965.1	D	Dublin	GCA 3066405.1
B	Typhimurium	GCA 1617585.1	B	Saintpaul	GCA 1834535.1	D	Dublin	GCA 3066565.1
B	Typhimurium	GCA 1623765.2	B	Saintpaul	GCA 1834565.1	D	Dublin	GCA 3067095.1
B	Typhimurium	GCA 1623775.1	B	Saintpaul	GCA 1833345.1	D	Dublin	GCA 3070565.1
B	Typhimurium	GCA 1623805.1	B	Saintpaul	GCA 1834015.1	D	Dublin	GCA 3065945.1
B	Typhimurium	GCA 1623825.2	B	Saintpaul	GCA 1834125.1	D	Dublin	GCA 3070345.1
B	Typhimurium	GCA 1623845.1	B	Saintpaul	GCA 1834305.1	D	Dublin	GCA 3070455.1
B	Typhimurium	GCA 1705365.1	B	Saintpaul	GCA 1832855.1	D	Dublin	GCA 3069805.1
B	Typhimurium	GCA 1729225.1	B	Saintpaul	GCA 1834525.1	D	Dublin	GCA 3069925.1
B	Typhimurium	GCA 1887015.1	B	Saintpaul	GCA 1834605.1	D	Dublin	GCA 3070015.1
B	Typhimurium	GCA 1922185.1	B	Saintpaul	GCA 1834465.1	D	Dublin	GCA 2264965.1
B	Typhimurium	GCA 1989635.1	B	Saintpaul	GCA 1833225.1	D	Dublin	GCA 3066105.1
B	Typhimurium	GCA 2009155.1	B	Saintpaul	GCA 1833415.1	D	Dublin	GCA 3066585.1
B	Typhimurium	GCA 2210025.1	B	Saintpaul	GCA 1833655.1	D	Dublin	GCA 1481195.1
B	Typhimurium	GCA 2762135.1	B	Saintpaul	GCA 1833805.1	D	Dublin	GCA 3067025.1
B	Typhimurium	GCA 900184385.1	B	Saintpaul	GCA 1834005.1	D	Dublin	GCA 3067185.1
B	Typhimurium	GCA 2209225.1	B	Saintpaul	GCA 1834385.1	D	Dublin	GCA 3066465.1
B	Typhimurium	GCA 973645.1	B	Saintpaul	GCA 1833315.1	D	Dublin	GCA 2063385.1
B	Typhimurium	GCA 993725.1	B	Saintpaul	GCA 1833815.1	D	Dublin	GCA 3069785.1
B	Typhimurium	GCA 1540845.1	B	Saintpaul	GCA 1834445.1	D	Dublin	GCA 3066535.1
B	Typhimurium	GCA 1623705.1	B	Saintpaul	GCA 1834485.1	D	Dublin	GCA 3066065.1
B	Typhimurium	GCA 1623745.2	B	Saintpaul	GCA 1834495.1	D	Dublin	GCA 3066085.1
B	Typhimurium	GCA 2813935.1	B	Saintpaul	GCA 1835315.1	D	Dublin	GCA 3067085.1
B	Typhimurium	GCA 3031835.1	B	Saintpaul	GCA 1479215.1	D	Dublin	GCA 1242765.1
B	Typhimurium	GCA 1587055.1	B	Saintpaul	GCA 1832595.1	D	Dublin	GCA 2065815.1
B	Typhimurium	GCA 252875.1	B	Saintpaul	GCA 1833465.1	D	Dublin	GCA 2030115.1
B	Typhimurium	GCA 493675.1	B	Saintpaul	GCA 1833935.1	D	Dublin	GCA 3066295.1
B	Typhimurium	GCA 636135.1	B	Saintpaul	GCA 1833975.1	D	Dublin	GCA 2090385.1
B	Typhimurium	GCA 715155.2	B	Saintpaul	GCA 1833855.1	D	Dublin	GCA 3068715.1
B	Typhimurium	GCA 743055.1	B	Saintpaul	GCA 1244095.1	D	Dublin	GCA 2090565.1
B	Typhimurium	GCA 1576255.1	B	Saintpaul	GCA 2063415.1	D	Dublin	GCA 2090755.1
B	Typhimurium	GCA 1576275.1	B	Saintpaul	GCA 1244055.1	D	Dublin	GCA 1480305.1
B	Typhimurium	GCA 1577505.1	B	Saintpaul	GCA 486165.2	D	Dublin	GCA 2264615.1
B	Typhimurium	GCA 1623685.1	B	Saintpaul	GCA 1952995.1	D	Dublin	GCA 3066715.1
B	Typhimurium	GCA 1623725.1	B	Saintpaul	GCA 1953675.1	D	Dublin	GCA 3067165.1
B	Typhimurium	GCA 2313125.1	B	Saintpaul	GCA 1953695.1	D	Dublin	GCA 3069705.1
B	Typhimurium	GCA 2947135.1	B	Saintpaul	GCA 2290205.1	D	Dublin	GCA 3069845.1
B	Typhimurium	GCA 3030285.1	B	Saintpaul	GCA 2386325.1	D	Dublin	GCA 1480725.1
B	Typhimurium	GCA 3032015.1	B	Saintpaul	GCA 170215.1	D	Dublin	GCA 1245745.1
B	Typhimurium	GCA 283735.1	B	Saintpaul	GCA 2234735.1	D	Dublin	GCA 3066385.1
B	Typhimurium	GCA 900166885.1	B	Saintpaul	GCA 1271755.1	D	Dublin	GCA 2090735.1
B	Typhimurium	GCA 188735.1	B	Saintpaul	GCA 3068765.1	D	Dublin	GCA 1954985.1
B	Typhimurium	GCA 210855.2	B	Saintpaul	GCA 1244325.1	D	Dublin	GCA 1954925.1
B	Typhimurium	GCA 380325.1	B	Saintpaul	GCA 3068965.1	D	Dublin	GCA 2090455.1
B	Typhimurium	GCA 1623645.2	B	Saintpaul	GCA 1247105.1	D	Dublin	GCA 1954935.1
B	Typhimurium	GCA 3194225.1	B	Saintpaul	GCA 1478745.1	D	Dublin	GCA 2090465.1
B	Typhimurium	GCA 1038115.1	B	Saintpaul	GCA 2031465.1	D	Dublin	GCA 2090475.1
B	Typhimurium	GCA 1038085.1	B	Saintpaul	GCA 1245335.1	D	Dublin	GCA 3067065.1
B	Typhimurium	GCA 3148925.1	B	Saintpaul	GCA 3069025.1	D	Dublin	GCA 3066425.1
B	Typhimurium	GCA 187785.2	B	Saintpaul	GCA 1477945.1	D	Dublin	GCA 1245835.1
B	Typhimurium	GCA 1034545.1	B	Saintpaul	GCA 3069045.1	D	Dublin	GCA 1954905.1
B	Typhimurium	GCA 1034615.1	B	Saintpaul	GCA 1243205.1	D	Dublin	GCA 1954975.1
B	Typhimurium	GCA 2740635.1	B	Saintpaul	GCA 1478765.1	D	Dublin	GCA 1954705.1
B	Typhimurium	GCA 336215.1	B	Saintpaul	GCA 1240335.1	D	Dublin	GCA 2090395.1
B	Typhimurium	GCA 1295485.1	B	Saintpaul	GCA 1243455.1	D	Dublin	GCA 1954745.1
B	Typhimurium	GCA 3074615.1	B	Saintpaul	GCA 1477905.1	D	Dublin	GCA 2090375.1
B	Typhimurium	GCA 3032275.1	B	Saintpaul	GCA 1240225.1	D	Dublin	GCA 1954995.1
B	Typhimurium	GCA 1350055.1	B	Saintpaul	GCA 1241665.1	D	Dublin	GCA 2090775.1
B	Typhimurium	GCA 1350195.1	B	Saintpaul	GCA 1478685.1	D	Dublin	GCA 1954735.1
B	Typhimurium	GCA 2798675.1	B	Saintpaul	GCA 1481045.1	D	Dublin	GCA 2061495.1
B	Typhimurium	GCA 1219925.1	B	Saintpaul	GCA 2032725.1	D	Dublin	GCA 2090485.1
B	Typhimurium	GCA 1097045.1	B	Saintpaul	GCA 1242655.1	D	Dublin	GCA 3066215.1
B	Typhimurium	GCA 3032135.1	B	Saintpaul	GCA 1243905.1	D	Dublin	GCA 3066435.1
B	Typhimurium	GCA 3032295.1	B	Saintpaul	GCA 1478225.1	D	Dublin	GCA 336035.1
B	Typhimurium	GCA 3032105.1	B	Saintpaul	GCA 3069085.1	D	Dublin	GCA 3070365.1
B	Typhimurium	GCA 3032095.1	B	Saintpaul	GCA 1243195.1	D	Dublin	GCA 3066205.1
B	Typhimurium	GCA 3032145.1	B	Saintpaul	GCA 1245345.1	D	Dublin	GCA 3066685.1
B	Typhimurium	GCA 3032255.1	B	Saintpaul	GCA 1478245.1	D	Dublin	GCA 1480245.1
B	Typhimurium	GCA 474475.1	B	Saintpaul	GCA 1242115.1	D	Dublin	GCA 3066705.1
B	Typhimurium	GCA 1295725.1	B	Saintpaul	GCA 1243445.1	D	Dublin	GCA 3066765.1

B	Typhimurium	GCA 2193545.1	B	Saintpaul	GCA 2063255.1	D	Dublin	GCA 3067045.1
B	Typhimurium	GCA 3032235.1	B	Saintpaul	GCA 1478155.1	D	Dublin	GCA 3066725.1
B	Typhimurium	GCA 474355.1	B	Saintpaul	GCA 495295.1	D	Javiana	GCA 171255.1
B	Typhimurium	GCA 1129385.1	B	Saintpaul	GCA 2032025.1	D	Javiana	GCA 1707555.1
B	Typhimurium	GCA 1161925.1	B	Saintpaul	GCA 1243775.1	D	Javiana	GCA 2061445.1
B	Typhimurium	GCA 1350115.1	B	Saintpaul	GCA 1479185.1	D	Javiana	GCA 2059385.1
B	Typhimurium	GCA 3032335.1	B	Saintpaul	GCA 2030545.1	D	Javiana	GCA 2064765.1
B	Typhimurium	GCA 474335.1	B	Saintpaul	GCA 1244925.1	D	Javiana	GCA 2064715.1
B	Typhimurium	GCA 1295425.1	B	Saintpaul	GCA 2031105.1	D	Javiana	GCA 2059825.1
B	Typhimurium	GCA 1595115.1	B	Saintpaul	GCA 1246025.1	D	Javiana	GCA 2063095.1
B	Typhimurium	GCA 2193525.1	B	Saintpaul	GCA 1479385.1	D	Javiana	GCA 2059715.1
B	Typhimurium	GCA 1091445.1	B	Saintpaul	GCA 1479275.1	D	Javiana	GCA 1938855.1
B	Typhimurium	GCA 1350075.1	B	Saintpaul	GCA 1243085.1	D	Javiana	GCA 1938925.1
B	Typhimurium	GCA 1120065.1	B	Saintpaul	GCA 3068805.1	D	Javiana	GCA 335955.1
B	Typhimurium	GCA 1159405.1	B	Saintpaul	GCA 1479205.1	D	Javiana	GCA 1938885.1
B	Typhimurium	GCA 1102665.1	B	Saintpaul	GCA 2032665.1	D	Javiana	GCA 2061385.1
B	Typhimurium	GCA 1139325.1	B	Saintpaul	GCA 2031275.1	D	Javiana	GCA 2034745.1
B	Typhimurium	GCA 1162405.1	B	Saintpaul	GCA 2064045.1	D	Javiana	GCA 2060175.1
B	Typhimurium	GCA 1295595.1	B	Saintpaul	GCA 1244935.1	D	Javiana	GCA 1478595.1
B	Typhimurium	GCA 1594745.1	B	Saintpaul	GCA 170235.1	D	Javiana	GCA 1938865.1
B	Typhimurium	GCA 1692145.1	B	Derby	GCA 2234755.1	D	Javiana	GCA 487095.1
B	Typhimurium	GCA 2193595.1	B	Derby	GCA 1040825.1	D	Javiana	GCA 1938795.1
B	Typhimurium	GCA 2193605.1	B	Derby	GCA 1478465.1	D	Javiana	GCA 2059665.1
B	Typhimurium	GCA 2193615.1	B	Derby	GCA 2030965.1	D	Javiana	GCA 487115.1
B	Typhimurium	GCA 1119985.1	B	Derby	GCA 1613955.1	D	Javiana	GCA 341425.1
B	Typhimurium	GCA 1220985.1	B	Derby	GCA 1481215.1	D	Javiana	GCA 335955.1
B	Typhimurium	GCA 1221705.1	B	Derby	GCA 1262435.1	D	Javiana	GCA 1707555.1
B	Typhimurium	GCA 1350135.1	B	Derby	GCA 2032345.1	D	Javiana	GCA 1938885.1
B	Typhimurium	GCA 1350255.1	B	Derby	GCA 2066555.1	D	Javiana	GCA 2059715.1
B	Typhimurium	GCA 2028585.1	B	Derby	GCA 2065865.1	D	Javiana	GCA 2059385.1
B	Typhimurium	GCA 3032375.1	B	Derby	GCA 2061135.1	D	Javiana	GCA 2059665.1
B	Typhimurium	GCA 1295465.1	B	Derby	GCA 2032085.1	D	Javiana	GCA 2059825.1
B	Typhimurium	GCA 1594855.1	B	Derby	GCA 1244515.1	D	Javiana	GCA 2063095.1
B	Typhimurium	GCA 2289265.1	B	Derby	GCA 1613945.1	D	Javiana	GCA 2064715.1
B	Typhimurium	GCA 1110745.1	B	Derby	GCA 1246825.1	D	Javiana	GCA 3067505.1
B	Typhimurium	GCA 2193535.1	B	Derby	GCA 2031835.1	D	Javiana	GCA 3117235.1
B	Typhimurium	GCA 1120665.1	B	Derby	GCA 1478025.1	D	Javiana	GCA 3117915.1
B	Typhimurium	GCA 1154285.1	B	Derby	GCA 2030215.1	D	Javiana	GCA 1938795.1
B	Typhimurium	GCA 1350175.1	B	Derby	GCA 2065855.1	D	Gallinarum	GCA 192125.1
B	Typhimurium	GCA 1350275.1	B	Derby	GCA 1475515.1	D	Gallinarum	GCA 1448635.1
B	Typhimurium	GCA 3032215.1	B	Derby	GCA 1242475.1	D	Gallinarum	GCA 1484835.1
B	Typhimurium	GCA 1130025.1	B	Derby	GCA 1478085.1	D	Gallinarum	GCA 801935.1
B	Typhimurium	GCA 1140725.1	B	Reading	GCA 2066775.1	D	Gallinarum	GCA 9525.1
B	Typhimurium	GCA 1295705.1	B	Reading	GCA 1241715.1	D	Gallinarum	GCA 335995.2
B	Typhimurium	GCA 1691985.1	B	Reading	GCA 1481255.1	D	Pullorum	GCA 953595.1
B	Typhimurium	GCA 1127885.1	B	Reading	GCA 1480185.1	D	Pullorum	GCA 1448575.1
B	Typhimurium	GCA 1153005.1	B	Reading	GCA 1243985.1	D	Pullorum	GCA 900067255.1
B	Typhimurium	GCA 1155485.1	B	Reading	GCA 1246075.1	D	Pullorum	GCA 484295.1
B	Typhimurium	GCA 1219465.1	B	Reading	GCA 1477955.1	D	Pullorum	GCA 486745.1
B	Typhimurium	GCA 1219525.1	B	Reading	GCA 1246365.1	D	Pullorum	GCA 330485.2
B	Typhimurium	GCA 2074775.1	B	Reading	GCA 1244455.1	D	Pullorum	GCA 444445.1
B	Typhimurium	GCA 1085685.1	B	Reading	GCA 2048855.1	D	Enteritidis	GCA 9505.1
B	Typhimurium	GCA 1130925.1	B	Reading	GCA 2048825.1	D	Enteritidis	GCA 280315.2
B	Typhimurium	GCA 1164765.1	B	Reading	GCA 2064115.1	D	Enteritidis	GCA 329365.2
B	Typhimurium	GCA 1350215.1	B	Reading	GCA 1481335.1	D	Enteritidis	GCA 335875.2
B	Typhimurium	GCA 2029445.1	B	Reading	GCA 2030715.1	D	Enteritidis	GCA 612325.1
B	Typhimurium	GCA 474575.1	B	Reading	GCA 2031205.1	D	Enteritidis	GCA 623135.2
B	Typhimurium	GCA 1146465.1	B	Indiana	GCA 1276865.1	D	Enteritidis	GCA 623195.2
B	Typhimurium	GCA 1756075.1	B	Indiana	GCA 487135.1	D	Enteritidis	GCA 623275.1
B	Typhimurium	GCA 1172545.1	B	Indiana	GCA 2048175.1	D	Enteritidis	GCA 623735.2
B	Typhimurium	GCA 2074335.1	B	Indiana	GCA 2046685.1	D	Enteritidis	GCA 624055.2
B	Typhimurium	GCA 2074515.1	B	Indiana	GCA 2062235.1	D	Enteritidis	GCA 624155.1
B	Typhimurium	GCA 3032175.1	B	Indiana	GCA 2047005.1	D	Enteritidis	GCA 624175.2
B	Typhimurium	GCA 1350155.1	B	Indiana	GCA 2224405.1	D	Enteritidis	GCA 626255.1
B	Typhimurium	GCA 1093545.1	B	Schwarzengrund	GCA 20745.1	D	Enteritidis	GCA 626275.2
B	Typhimurium	GCA 1105145.1	B	Schwarzengrund	GCA 171295.1	D	Enteritidis	GCA 626295.1
B	Typhimurium	GCA 1125725.1	B	Schwarzengrund	GCA 1240275.1	D	Enteritidis	GCA 626695.2
B	Typhimurium	GCA 1131525.1	B	Schwarzengrund	GCA 1240625.1	D	Enteritidis	GCA 750335.1
B	Typhimurium	GCA 1137885.1	B	Schwarzengrund	GCA 1241265.1	D	Enteritidis	GCA 750375.1
B	Typhimurium	GCA 1350035.1	B	Schwarzengrund	GCA 1242265.1	D	Enteritidis	GCA 754375.1
B	Typhimurium	GCA 2074375.1	B	Schwarzengrund	GCA 1243745.1	D	Enteritidis	GCA 1185215.1

B	Typhimurium	GCA 2074595.1	B	Schwarzengrund	GCA 1245545.1	D	Enteritidis	GCA 1305235.1
B	Typhimurium	GCA 2066505.1	B	Schwarzengrund	GCA 1246305.1	D	Enteritidis	GCA 1484025.1
B	Typhimurium	GCA 1172145.1	B	Schwarzengrund	GCA 1246555.1	D	Enteritidis	GCA 1647045.1
B	Typhimurium	GCA 2029395.1	B	Schwarzengrund	GCA 1246985.1	D	Enteritidis	GCA 1973275.2
B	Typhimurium	GCA 2029715.1	B	Schwarzengrund	GCA 1247455.1	D	Enteritidis	GCA 2760955.1
B	Typhimurium	GCA 3097395.1	B	Schwarzengrund	GCA 1271815.1	D	Enteritidis	GCA 2760975.1
B	Typhimurium	GCA 3120755.1	B	Schwarzengrund	GCA 1478525.1	D	Enteritidis	GCA 2760995.1
B	Typhimurium	GCA 1217445.1	B	Schwarzengrund	GCA 1479805.1	D	Enteritidis	GCA 2761015.1
B	Typhimurium	GCA 2029705.1	B	Schwarzengrund	GCA 1480325.1	D	Enteritidis	GCA 2761035.1
B	Typhimurium	GCA 2074185.1	B	Schwarzengrund	GCA 1480535.1	D	Enteritidis	GCA 2763415.1
B	Typhimurium	GCA 2074525.1	B	Schwarzengrund	GCA 1480895.1	D	Enteritidis	GCA 623055.2
B	Typhimurium	GCA 2074735.1	B	Schwarzengrund	GCA 1614045.1	D	Enteritidis	GCA 623095.2
B	Typhimurium	GCA 1350235.1	B	Schwarzengrund	GCA 1614065.1	D	Enteritidis	GCA 623115.2
B	Typhimurium	GCA 3120035.1	B	Schwarzengrund	GCA 1614095.1	D	Enteritidis	GCA 623295.1
B	Typhimurium	GCA 1116925.1	B	Schwarzengrund	GCA 1614105.1	D	Enteritidis	GCA 623315.1
B	Typhimurium	GCA 2029485.1	B	Schwarzengrund	GCA 2031125.1	D	Enteritidis	GCA 623335.1
B	Typhimurium	GCA 2074715.1	B	Schwarzengrund	GCA 2031905.1	D	Enteritidis	GCA 623355.1
B	Typhimurium	GCA 2289275.1	B	Schwarzengrund	GCA 2033085.1	D	Enteritidis	GCA 623375.1
B	Typhimurium	GCA 336195.1	B	Schwarzengrund	GCA 2033125.1	D	Enteritidis	GCA 623395.2
B	Typhimurium	GCA 1295555.1	B	Schwarzengrund	GCA 2063955.1	D	Enteritidis	GCA 623455.2
B	Typhimurium	GCA 1884505.1	B	Brandenburg	GCA 1243855.1	D	Enteritidis	GCA 623475.2
B	Typhimurium	GCA 2031925.1	B	Brandenburg	GCA 1242575.1	D	Enteritidis	GCA 623615.2
B	Typhimurium	GCA 1154585.1	B	Brandenburg	GCA 1246205.1	D	Enteritidis	GCA 623655.2
B	Typhimurium	GCA 2029365.1	B	Brandenburg	GCA 2035925.1	D	Enteritidis	GCA 623675.2
B	Typhimurium	GCA 2074655.1	B	Brandenburg	GCA 2063195.1	D	Enteritidis	GCA 623715.2
B	Typhimurium	GCA 2074795.1	B	Brandenburg	GCA 2066025.1	D	Enteritidis	GCA 624395.2
B	Typhimurium	GCA 2798555.1	B	Kiambu	GCA 2047805.1	D	Enteritidis	GCA 625855.2
B	Typhimurium	GCA 1272415.1	B	Kiambu	GCA 2047545.1	D	Enteritidis	GCA 626095.2
B	Typhimurium	GCA 1594685.1	B	Kiambu	GCA 2047555.1	D	Enteritidis	GCA 626175.1
B	Typhimurium	GCA 1085145.1	B	Kiambu	GCA 2048645.1	D	Enteritidis	GCA 626195.1
B	Typhimurium	GCA 2028625.1	B	Kiambu	GCA 3119325.1	D	Enteritidis	GCA 626215.1
B	Typhimurium	GCA 2029675.1	B	Kiambu	GCA 3118115.1	D	Enteritidis	GCA 626235.1
B	Typhimurium	GCA 2029795.1	B	Legon	GCA 3072845.1	D	Enteritidis	GCA 626335.1
B	Typhimurium	GCA 2074455.1	B	Legon	GCA 3072905.1	D	Enteritidis	GCA 626355.1
B	Typhimurium	GCA 2074465.1	B	Legon	GCA 3072925.1	D	Enteritidis	GCA 626375.1
B	Typhimurium	GCA 2074685.1	B	Legon	GCA 3072965.1	D	Enteritidis	GCA 750215.1
B	Typhimurium	GCA 1272475.1	B	Legon	GCA 3072785.1	D	Enteritidis	GCA 750255.1
B	Typhimurium	GCA 1594775.1	B	Legon	GCA 3072825.1	D	Enteritidis	GCA 750295.1
B	Typhimurium	GCA 1096565.1	B	Legon	GCA 3072885.1	D	Enteritidis	GCA 750395.2
B	Typhimurium	GCA 1111905.1	B	Legon	GCA 3072945.1	D	Enteritidis	GCA 750415.2
B	Typhimurium	GCA 1222725.1	B	Sloterdijk	GCA 486445.2	D	Enteritidis	GCA 750435.1
B	Typhimurium	GCA 2074385.1	B	Abony	GCA 487615.2	D	Enteritidis	GCA 750455.1
B	Typhimurium	GCA 2074635.1	B	Essen	GCA 2507445.1	D	Enteritidis	GCA 750475.1
B	Typhimurium	GCA 2798695.1	C1	Infantis	GCA 1691915.1	D	Enteritidis	GCA 750495.1
B	Typhimurium	GCA 1692065.1	C1	Infantis	GCA 2200735.1	D	Enteritidis	GCA 1185245.1
B	Typhimurium	GCA 468255.1	C1	Infantis	GCA 2206125.1	D	Enteritidis	GCA 2220345.1
B	Typhimurium	GCA 1271645.1	C1	Infantis	GCA 1951775.1	D	Enteritidis	GCA 2982095.1
B	Typhimurium	GCA 1295385.1	C1	Infantis	GCA 2200655.1	D	Enteritidis	GCA 623075.2
B	Typhimurium	GCA 1295405.1	C1	Infantis	GCA 2592295.1	D	Enteritidis	GCA 623155.2
B	Typhimurium	GCA 1756125.1	C1	Infantis	GCA 2030975.1	D	Enteritidis	GCA 623175.2
B	Typhimurium	GCA 1326215.1	C1	Infantis	GCA 1906505.1	D	Enteritidis	GCA 623215.2
B	Typhimurium	GCA 2028595.1	C1	Infantis	GCA 2200315.1	D	Enteritidis	GCA 623235.2
B	Typhimurium	GCA 2028675.1	C1	Infantis	GCA 2064875.1	D	Enteritidis	GCA 623255.2
B	Typhimurium	GCA 2074225.1	C1	Infantis	GCA 2592315.1	D	Enteritidis	GCA 623415.2
B	Typhimurium	GCA 2074395.1	C1	Infantis	GCA 1951835.1	D	Enteritidis	GCA 623435.2
B	Typhimurium	GCA 2074445.1	C1	Infantis	GCA 1766495.1	D	Enteritidis	GCA 623495.2
B	Typhimurium	GCA 2074555.1	C1	Infantis	GCA 2030305.1	D	Enteritidis	GCA 623515.2
B	Typhimurium	GCA 2074605.1	C1	Infantis	GCA 1766515.1	D	Enteritidis	GCA 623535.2
B	Typhimurium	GCA 1241895.1	C1	Infantis	GCA 1951705.1	D	Enteritidis	GCA 623555.2
B	Typhimurium	GCA 1247185.1	C1	Infantis	GCA 2592155.1	D	Enteritidis	GCA 623575.2
B	Typhimurium	GCA 1594825.1	C1	Infantis	GCA 2200605.1	D	Enteritidis	GCA 623595.2
B	Typhimurium	GCA 1755945.1	C1	Infantis	GCA 2200475.1	D	Enteritidis	GCA 623635.2
B	Typhimurium	GCA 1756065.1	C1	Infantis	GCA 2200795.1	D	Enteritidis	GCA 623695.2
B	Typhimurium	GCA 1565995.1	C1	Infantis	GCA 2200565.1	D	Enteritidis	GCA 623755.2
B	Typhimurium	GCA 2029665.1	C1	Infantis	GCA 2200485.1	D	Enteritidis	GCA 623775.2
B	Typhimurium	GCA 2074235.1	C1	Infantis	GCA 2064895.1	D	Enteritidis	GCA 623795.2
B	Typhimurium	GCA 2074675.1	C1	Infantis	GCA 2592145.1	D	Enteritidis	GCA 623815.2
B	Typhimurium	GCA 2289225.1	C1	Infantis	GCA 2592215.1	D	Enteritidis	GCA 623835.2
B	Typhimurium	GCA 3032195.1	C1	Infantis	GCA 2200395.1	D	Enteritidis	GCA 623855.2
B	Typhimurium	GCA 974125.1	C1	Infantis	GCA 2592095.1	D	Enteritidis	GCA 623875.2
B	Typhimurium	GCA 1215685.1	C1	Infantis	GCA 2592235.1	D	Enteritidis	GCA 623895.2

B	Typhimurium	GCA 1350095.1	C1	Infantis	GCA 1951695.1	D	Enteritidis	GCA 623915.2
B	Typhimurium	GCA 2028635.1	C1	Infantis	GCA 1766505.1	D	Enteritidis	GCA 623935.2
B	Typhimurium	GCA 2029375.1	C1	Infantis	GCA 1906535.1	D	Enteritidis	GCA 623955.2
B	Typhimurium	GCA 2029825.1	C1	Infantis	GCA 2200285.1	D	Enteritidis	GCA 623975.2
B	Typhimurium	GCA 2074545.1	C1	Infantis	GCA 2200525.1	D	Enteritidis	GCA 623995.2
B	Typhimurium	GCA 2074745.1	C1	Infantis	GCA 2200755.1	D	Enteritidis	GCA 624015.2
B	Typhimurium	GCA 1595265.1	C1	Infantis	GCA 1971045.1	D	Enteritidis	GCA 624035.2
B	Typhimurium	GCA 1756245.1	C1	Infantis	GCA 2237355.1	D	Enteritidis	GCA 624075.2
B	Typhimurium	GCA 2264665.1	C1	Infantis	GCA 1442675.1	D	Enteritidis	GCA 624095.2
B	Typhimurium	GCA 1095425.1	C1	Infantis	GCA 953495.1	D	Enteritidis	GCA 624115.2
B	Typhimurium	GCA 1164125.1	C1	Infantis	GCA 1931555.1	D	Enteritidis	GCA 624135.2
B	Typhimurium	GCA 1215545.1	C1	Infantis	GCA 1931575.1	D	Enteritidis	GCA 624195.2
B	Typhimurium	GCA 2029765.1	C1	Infantis	GCA 1931595.1	D	Enteritidis	GCA 624215.2
B	Typhimurium	GCA 2074305.1	C1	Infantis	GCA 1931615.1	D	Enteritidis	GCA 624235.2
B	Typhimurium	GCA 1246625.1	C1	Infantis	GCA 2863785.1	D	Enteritidis	GCA 624255.2
B	Typhimurium	GCA 1271965.1	C1	Infantis	GCA 230875.1	D	Enteritidis	GCA 624275.2
B	Typhimurium	GCA 1295545.1	C1	Infantis	GCA 1952165.1	D	Enteritidis	GCA 624295.2
B	Typhimurium	GCA 1594615.1	C1	Infantis	GCA 3117775.1	D	Enteritidis	GCA 624315.2
B	Typhimurium	GCA 1756185.1	C1	Infantis	GCA 2059515.1	D	Enteritidis	GCA 624335.2
B	Typhimurium	GCA 2030225.1	C1	Infantis	GCA 2200515.1	D	Enteritidis	GCA 624355.2
B	Typhimurium	GCA 974095.1	C1	Infantis	GCA 2592195.1	D	Enteritidis	GCA 624375.2
B	Typhimurium	GCA 1218625.1	C1	Infantis	GCA 3117615.1	D	Enteritidis	GCA 624415.2
B	Typhimurium	GCA 1223225.1	C1	Infantis	GCA 2200275.1	D	Enteritidis	GCA 624435.2
B	Typhimurium	GCA 2029785.1	C1	Infantis	GCA 2592255.1	D	Enteritidis	GCA 624455.2
B	Typhimurium	GCA 2074175.1	C1	Infantis	GCA 1951765.1	D	Enteritidis	GCA 624475.2
B	Typhimurium	GCA 2074345.1	C1	Infantis	GCA 2032145.1	D	Enteritidis	GCA 624495.2
B	Typhimurium	GCA 1246265.1	C1	Infantis	GCA 2200665.1	D	Enteritidis	GCA 624515.2
B	Typhimurium	GCA 2030995.1	C1	Infantis	GCA 1952215.1	D	Enteritidis	GCA 624535.2
B	Typhimurium	GCA 2032065.1	C1	Infantis	GCA 2107535.1	D	Enteritidis	GCA 624555.2
B	Typhimurium	GCA 973915.1	C1	Infantis	GCA 3119615.1	D	Enteritidis	GCA 624575.2
B	Typhimurium	GCA 1218605.1	C1	Infantis	GCA 1242875.1	D	Enteritidis	GCA 624595.2
B	Typhimurium	GCA 2029745.1	C1	Infantis	GCA 1906515.1	D	Enteritidis	GCA 624615.2
B	Typhimurium	GCA 2029835.1	C1	Infantis	GCA 1952205.1	D	Enteritidis	GCA 624635.2
B	Typhimurium	GCA 2074215.1	C1	Infantis	GCA 2200335.1	D	Enteritidis	GCA 624655.2
B	Typhimurium	GCA 2074245.1	C1	Infantis	GCA 3118035.1	D	Enteritidis	GCA 624675.2
B	Typhimurium	GCA 786025.1	C1	Infantis	GCA 2030855.1	D	Enteritidis	GCA 624695.2
B	Typhimurium	GCA 1755985.1	C1	Infantis	GCA 3119355.1	D	Enteritidis	GCA 624715.2
B	Typhimurium	GCA 1135785.1	C1	Infantis	GCA 1997485.1	D	Enteritidis	GCA 624735.2
B	Typhimurium	GCA 2798595.1	C1	Infantis	GCA 2200745.1	D	Enteritidis	GCA 624755.2
B	Typhimurium	GCA 465195.1	C1	Infantis	GCA 1244215.1	D	Enteritidis	GCA 624775.2
B	Typhimurium	GCA 1245645.1	C1	Infantis	GCA 1951785.1	D	Enteritidis	GCA 624795.2
B	Typhimurium	GCA 1594845.1	C1	Infantis	GCA 1246465.1	D	Enteritidis	GCA 624815.2
B	Typhimurium	GCA 1755895.1	C1	Infantis	GCA 2200715.1	D	Enteritidis	GCA 624835.2
B	Typhimurium	GCA 2030605.1	C1	Infantis	GCA 2200635.1	D	Enteritidis	GCA 624855.2
B	Typhimurium	GCA 2035135.1	C1	Infantis	GCA 1244865.1	D	Enteritidis	GCA 624875.2
B	Typhimurium	GCA 2106175.1	C1	Infantis	GCA 1971055.1	D	Enteritidis	GCA 624895.2
B	Typhimurium	GCA 1217665.1	C1	Infantis	GCA 3077795.1	D	Enteritidis	GCA 624915.2
B	Typhimurium	GCA 1222865.1	C1	Infantis	GCA 1242545.1	D	Enteritidis	GCA 624935.2
B	Typhimurium	GCA 2798835.1	C1	Infantis	GCA 1246295.1	D	Enteritidis	GCA 624955.2
B	Typhimurium	GCA 1242565.1	C1	Infantis	GCA 1970895.1	D	Enteritidis	GCA 624975.2
B	Typhimurium	GCA 1247265.1	C1	Infantis	GCA 1952225.1	D	Enteritidis	GCA 624995.2
B	Typhimurium	GCA 1247275.1	C1	Infantis	GCA 2119135.1	D	Enteritidis	GCA 625015.2
B	Typhimurium	GCA 1272535.1	C1	Infantis	GCA 2198745.1	D	Enteritidis	GCA 625035.2
B	Typhimurium	GCA 1755875.1	C1	Infantis	GCA 2592105.1	D	Enteritidis	GCA 625055.2
B	Typhimurium	GCA 1755955.1	C1	Infantis	GCA 3118235.1	D	Enteritidis	GCA 625075.2
B	Typhimurium	GCA 2031265.1	C1	Infantis	GCA 2592275.1	D	Enteritidis	GCA 625095.2
B	Typhimurium	GCA 3119095.1	C1	Infantis	GCA 2200435.1	D	Enteritidis	GCA 625115.2
B	Typhimurium	GCA 1214865.1	C1	Infantis	GCA 3118475.1	D	Enteritidis	GCA 625135.2
B	Typhimurium	GCA 1215105.1	C1	Infantis	GCA 3120215.1	D	Enteritidis	GCA 625155.2
B	Typhimurium	GCA 1217925.1	C1	Infantis	GCA 2200365.1	D	Enteritidis	GCA 625175.2
B	Typhimurium	GCA 2798515.1	C1	Infantis	GCA 2200415.1	D	Enteritidis	GCA 625195.2
B	Typhimurium	GCA 2798715.1	C1	Infantis	GCA 1691885.1	D	Enteritidis	GCA 625215.2
B	Typhimurium	GCA 2809915.1	C1	Infantis	GCA 1242165.1	D	Enteritidis	GCA 625235.2
B	Typhimurium	GCA 1295625.1	C1	Infantis	GCA 3117335.1	D	Enteritidis	GCA 625255.2
B	Typhimurium	GCA 474395.1	C1	Infantis	GCA 3118825.1	D	Enteritidis	GCA 625275.2
B	Typhimurium	GCA 1457365.1	C1	Infantis	GCA 2200325.1	D	Enteritidis	GCA 625295.2
B	Typhimurium	GCA 1480985.1	C1	Infantis	GCA 1970975.1	D	Enteritidis	GCA 625315.2
B	Typhimurium	GCA 1594795.1	C1	Infantis	GCA 3118555.1	D	Enteritidis	GCA 625335.2
B	Typhimurium	GCA 3119175.1	C1	Infantis	GCA 3119595.1	D	Enteritidis	GCA 625355.2
B	Typhimurium	GCA 1218445.1	C1	Infantis	GCA 1951755.1	D	Enteritidis	GCA 625375.2
B	Typhimurium	GCA 1219485.1	C1	Infantis	GCA 2200405.1	D	Enteritidis	GCA 625395.2

B	Typhimurium	GCA 2029455.1	C1	Infantis	GCA 2200675.1	D	Enteritidis	GCA 625415.2
B	Typhimurium	GCA 2798795.1	C1	Infantis	GCA 1242985.1	D	Enteritidis	GCA 625435.2
B	Typhimurium	GCA 2031955.1	C1	Infantis	GCA 1970985.1	D	Enteritidis	GCA 625455.2
B	Typhimurium	GCA 1215145.1	C1	Infantis	GCA 1244805.1	D	Enteritidis	GCA 625475.2
B	Typhimurium	GCA 1221265.1	C1	Infantis	GCA 3119435.1	D	Enteritidis	GCA 625495.2
B	Typhimurium	GCA 1223205.1	C1	Infantis	GCA 3120895.1	D	Enteritidis	GCA 625515.2
B	Typhimurium	GCA 1566115.1	C1	Infantis	GCA 2064835.1	D	Enteritidis	GCA 625535.2
B	Typhimurium	GCA 2074435.1	C1	Infantis	GCA 3119395.1	D	Enteritidis	GCA 625555.2
B	Typhimurium	GCA 1271825.1	C1	Infantis	GCA 1243785.1	D	Enteritidis	GCA 625575.2
B	Typhimurium	GCA 1326275.1	C1	Infantis	GCA 1951675.1	D	Enteritidis	GCA 625595.2
B	Typhimurium	GCA 1594445.1	C1	Infantis	GCA 1970965.1	D	Enteritidis	GCA 625615.2
B	Typhimurium	GCA 1594765.1	C1	Infantis	GCA 1951685.1	D	Enteritidis	GCA 625635.2
B	Typhimurium	GCA 1594875.1	C1	Infantis	GCA 1442695.1	D	Enteritidis	GCA 625655.2
B	Typhimurium	GCA 2032435.1	C1	Infantis	GCA 1478785.1	D	Enteritidis	GCA 625675.2
B	Typhimurium	GCA 3120815.1	C1	Infantis	GCA 2064905.1	D	Enteritidis	GCA 625695.2
B	Typhimurium	GCA 1215365.1	C1	Infantis	GCA 1906525.1	D	Enteritidis	GCA 625715.2
B	Typhimurium	GCA 1217205.1	C1	Infantis	GCA 2032265.1	D	Enteritidis	GCA 625735.2
B	Typhimurium	GCA 1218345.1	C1	Infantis	GCA 2110505.1	D	Enteritidis	GCA 625755.2
B	Typhimurium	GCA 2029385.1	C1	Infantis	GCA 2110515.1	D	Enteritidis	GCA 625775.2
B	Typhimurium	GCA 2798755.1	C1	Infantis	GCA 3077385.1	D	Enteritidis	GCA 625795.2
B	Typhimurium	GCA 1480025.1	C1	Infantis	GCA 1479785.1	D	Enteritidis	GCA 625815.2
B	Typhimurium	GCA 1594715.1	C1	Infantis	GCA 2059795.1	D	Enteritidis	GCA 625835.2
B	Typhimurium	GCA 1221385.1	C1	Infantis	GCA 2107195.1	D	Enteritidis	GCA 625875.2
B	Typhimurium	GCA 1246565.1	C1	Infantis	GCA 2200805.1	D	Enteritidis	GCA 625895.2
B	Typhimurium	GCA 1271505.1	C1	Infantis	GCA 1241325.1	D	Enteritidis	GCA 625915.2
B	Typhimurium	GCA 1756025.1	C1	Infantis	GCA 1242185.1	D	Enteritidis	GCA 625935.2
B	Typhimurium	GCA 3117055.1	C1	Infantis	GCA 506925.1	D	Enteritidis	GCA 625955.2
B	Typhimurium	GCA 1220405.1	C1	Infantis	GCA 3119315.1	D	Enteritidis	GCA 625975.2
B	Typhimurium	GCA 1220725.1	C1	Infantis	GCA 3119255.1	D	Enteritidis	GCA 625995.2
B	Typhimurium	GCA 1220905.1	C1	Infantis	GCA 2200555.1	D	Enteritidis	GCA 626015.2
B	Typhimurium	GCA 1221845.1	C1	Infantis	GCA 506945.1	D	Enteritidis	GCA 626035.2
B	Typhimurium	GCA 1566155.1	C1	Infantis	GCA 1478585.1	D	Enteritidis	GCA 626055.2
B	Typhimurium	GCA 474555.1	C1	Infantis	GCA 2059955.1	D	Enteritidis	GCA 626075.2
B	Typhimurium	GCA 1220205.1	C1	Infantis	GCA 3120775.1	D	Enteritidis	GCA 626115.2
B	Typhimurium	GCA 1245415.1	C1	Infantis	GCA 2065585.1	D	Enteritidis	GCA 626135.2
B	Typhimurium	GCA 1756215.1	C1	Infantis	GCA 812595.1	D	Enteritidis	GCA 626155.2
B	Typhimurium	GCA 1214705.1	C1	Bareilly	GCA 1707735.1	D	Enteritidis	GCA 626395.2
B	Typhimurium	GCA 1214765.1	C1	Bareilly	GCA 832685.1	D	Enteritidis	GCA 626415.2
B	Typhimurium	GCA 1216645.1	C1	Bareilly	GCA 1834255.1	D	Enteritidis	GCA 626435.2
B	Typhimurium	GCA 1217965.1	C1	Bareilly	GCA 487355.1	D	Enteritidis	GCA 626455.1
B	Typhimurium	GCA 1218245.1	C1	Bareilly	GCA 1834225.1	D	Enteritidis	GCA 626475.2
B	Typhimurium	GCA 1218465.1	C1	Bareilly	GCA 487415.1	D	Enteritidis	GCA 626495.2
B	Typhimurium	GCA 1220125.1	C1	Bareilly	GCA 1833665.1	D	Enteritidis	GCA 626515.2
B	Typhimurium	GCA 1220705.1	C1	Bareilly	GCA 1835125.1	D	Enteritidis	GCA 626535.2
B	Typhimurium	GCA 1222185.1	C1	Bareilly	GCA 1834405.1	D	Enteritidis	GCA 626555.2
B	Typhimurium	GCA 1223185.1	C1	Bareilly	GCA 1834415.1	D	Enteritidis	GCA 831025.2
B	Typhimurium	GCA 2798565.1	C1	Bareilly	GCA 1835285.1	D	Enteritidis	GCA 831045.2
B	Typhimurium	GCA 1241605.1	C1	Bareilly	GCA 1832745.1	D	Enteritidis	GCA 968775.2
B	Typhimurium	GCA 1241905.1	C1	Bareilly	GCA 2066135.1	D	Enteritidis	GCA 968795.2
B	Typhimurium	GCA 1245495.1	C1	Bareilly	GCA 1835385.1	D	Enteritidis	GCA 626315.1
B	Typhimurium	GCA 2059555.1	C1	Bareilly	GCA 747885.1	D	Enteritidis	GCA 2760915.1
B	Typhimurium	GCA 1215725.1	C1	Bareilly	GCA 748565.1	D	Enteritidis	GCA 2760935.1
B	Typhimurium	GCA 1218885.1	C1	Bareilly	GCA 749085.1	D	Enteritidis	GCA 2761055.1
B	Typhimurium	GCA 1219305.1	C1	Bareilly	GCA 749435.1	D	Enteritidis	GCA 2761075.1
B	Typhimurium	GCA 1219685.1	C1	Bareilly	GCA 698715.1	D	Enteritidis	GCA 2761115.1
B	Typhimurium	GCA 1220285.1	C1	Bareilly	GCA 749005.1	D	Enteritidis	GCA 2813975.1
B	Typhimurium	GCA 1220965.1	C1	Bareilly	GCA 748505.1	D	Enteritidis	GCA 2813995.1
B	Typhimurium	GCA 1221345.1	C1	Bareilly	GCA 698635.1	D	Enteritidis	GCA 3031995.1
B	Typhimurium	GCA 1221545.1	C1	Bareilly	GCA 2063005.1	D	Enteritidis	GCA 2761095.1
B	Typhimurium	GCA 1221945.1	C1	Bareilly	GCA 747965.1	D	Enteritidis	GCA 2761135.1
B	Typhimurium	GCA 1222785.1	C1	Bareilly	GCA 748925.1	D	Enteritidis	GCA 2761155.1
B	Typhimurium	GCA 1223285.1	C1	Bareilly	GCA 747905.1	D	Enteritidis	GCA 3032035.1
B	Typhimurium	GCA 1220425.1	C1	Bareilly	GCA 748225.1	D	Enteritidis	GCA 3184325.1
B	Typhimurium	GCA 1221665.1	C1	Bareilly	GCA 748905.1	D	Enteritidis	GCA 3184425.1
B	Typhimurium	GCA 1240805.1	C1	Bareilly	GCA 749195.1	D	Enteritidis	GCA 2284635.1
B	Typhimurium	GCA 1244105.1	C1	Bareilly	GCA 748105.1	D	Enteritidis	GCA 2528955.1
B	Typhimurium	GCA 1246705.1	C1	Bareilly	GCA 748065.1	D	Enteritidis	GCA 2907005.1
B	Typhimurium	GCA 3186325.1	C1	Bareilly	GCA 748525.1	D	Enteritidis	GCA 2914455.1
B	Typhimurium	GCA 1215765.1	C1	Bareilly	GCA 748845.1	D	Enteritidis	GCA 2914485.1
B	Typhimurium	GCA 1217085.1	C1	Bareilly	GCA 748245.1	D	Enteritidis	GCA 2529025.1
B	Typhimurium	GCA 1217625.1	C1	Bareilly	GCA 748325.1	D	Enteritidis	GCA 2914435.1

B	Typhimurium	GCA 1217845.1	C1	Bareilly	GCA 748345.1	D	Enteritidis	GCA 2908955.1
B	Typhimurium	GCA 1218365.1	C1	Bareilly	GCA 748365.1	D	Enteritidis	GCA 2908995.1
B	Typhimurium	GCA 1221245.1	C1	Bareilly	GCA 748465.1	D	Enteritidis	GCA 2908975.1
B	Typhimurium	GCA 1221745.1	C1	Bareilly	GCA 748145.1	D	Enteritidis	GCA 2528945.1
B	Typhimurium	GCA 1221785.1	C1	Bareilly	GCA 439415.1	D	Enteritidis	GCA 2909015.1
B	Typhimurium	GCA 1222465.1	C1	Bareilly	GCA 3121015.1	D	Enteritidis	GCA 2906965.1
B	Typhimurium	GCA 1326195.1	C1	Bareilly	GCA 748865.1	D	Enteritidis	GCA 1973025.1
B	Typhimurium	GCA 1243255.1	C1	Bareilly	GCA 747835.1	D	Enteritidis	GCA 1973065.1
B	Typhimurium	GCA 1244385.1	C1	Bareilly	GCA 748265.1	D	Enteritidis	GCA 1713755.1
B	Typhimurium	GCA 1594695.1	C1	Bareilly	GCA 698675.1	D	Enteritidis	GCA 1713875.1
B	Typhimurium	GCA 2035025.1	C1	Bareilly	GCA 747845.1	D	Enteritidis	GCA 1972945.1
B	Typhimurium	GCA 3118275.1	C1	Bareilly	GCA 748185.1	D	Enteritidis	GCA 1973705.1
B	Typhimurium	GCA 1215865.1	C1	Bareilly	GCA 748305.1	D	Enteritidis	GCA 1973755.1
B	Typhimurium	GCA 1217305.1	C1	Bareilly	GCA 749215.1	D	Enteritidis	GCA 2039215.1
B	Typhimurium	GCA 1217585.1	C1	Bareilly	GCA 749255.1	D	Enteritidis	GCA 1713785.1
B	Typhimurium	GCA 1218425.1	C1	Bareilly	GCA 749045.1	D	Enteritidis	GCA 1713905.1
B	Typhimurium	GCA 1218825.1	C1	Bareilly	GCA 749455.1	D	Enteritidis	GCA 1972545.1
B	Typhimurium	GCA 1218845.1	C1	Bareilly	GCA 412895.1	D	Enteritidis	GCA 1972725.1
B	Typhimurium	GCA 1219365.1	C1	Bareilly	GCA 487455.1	D	Enteritidis	GCA 1972815.1
B	Typhimurium	GCA 1219765.1	C1	Bareilly	GCA 698695.2	D	Enteritidis	GCA 1972915.1
B	Typhimurium	GCA 1219945.1	C1	Bareilly	GCA 748725.1	D	Enteritidis	GCA 1972995.1
B	Typhimurium	GCA 1221005.1	C1	Bareilly	GCA 749145.1	D	Enteritidis	GCA 1973035.1
B	Typhimurium	GCA 1221685.1	C1	Bareilly	GCA 748165.1	D	Enteritidis	GCA 1973265.1
B	Typhimurium	GCA 1222605.1	C1	Bareilly	GCA 749275.1	D	Enteritidis	GCA 1973345.1
B	Typhimurium	GCA 1326235.1	C1	Bareilly	GCA 749505.1	D	Enteritidis	GCA 1973665.1
B	Typhimurium	GCA 444835.2	C1	Bareilly	GCA 748405.1	D	Enteritidis	GCA 1973725.1
B	Typhimurium	GCA 1478325.1	C1	Bareilly	GCA 748045.1	D	Enteritidis	GCA 2041945.1
B	Typhimurium	GCA 1480855.1	C1	Bareilly	GCA 293075.1	D	Enteritidis	GCA 1597875.1
B	Typhimurium	GCA 973845.1	C1	Bareilly	GCA 748945.1	D	Enteritidis	GCA 1713825.1
B	Typhimurium	GCA 1216565.1	C1	Bareilly	GCA 747825.1	D	Enteritidis	GCA 1713915.1
B	Typhimurium	GCA 1216785.1	C1	Bareilly	GCA 749065.1	D	Enteritidis	GCA 1972635.1
B	Typhimurium	GCA 1217985.1	C1	Bareilly	GCA 748205.1	D	Enteritidis	GCA 1972645.1
B	Typhimurium	GCA 1218965.1	C1	Bareilly	GCA 748025.1	D	Enteritidis	GCA 1972795.1
B	Typhimurium	GCA 1219225.1	C1	Bareilly	GCA 748665.1	D	Enteritidis	GCA 1972875.1
B	Typhimurium	GCA 1219725.1	C1	Bareilly	GCA 749295.1	D	Enteritidis	GCA 1972955.1
B	Typhimurium	GCA 1221885.1	C1	Bareilly	GCA 749125.1	D	Enteritidis	GCA 1973085.1
B	Typhimurium	GCA 1222405.1	C1	Bareilly	GCA 758005.1	D	Enteritidis	GCA 1973195.1
B	Typhimurium	GCA 1223545.1	C1	Bareilly	GCA 748285.1	D	Enteritidis	GCA 1973245.1
B	Typhimurium	GCA 1997115.1	C1	Bareilly	GCA 749105.1	D	Enteritidis	GCA 1973305.1
B	Typhimurium	GCA 2798625.1	C1	Bareilly	GCA 749415.1	D	Enteritidis	GCA 1973325.1
B	Typhimurium	GCA 1223525.1	C1	Bareilly	GCA 487435.1	D	Enteritidis	GCA 1973585.1
B	Typhimurium	GCA 1246695.1	C1	Bareilly	GCA 748085.1	D	Enteritidis	GCA 1973595.1
B	Typhimurium	GCA 1480385.1	C1	Bareilly	GCA 698535.1	D	Enteritidis	GCA 1973625.1
B	Typhimurium	GCA 1594435.1	C1	Bareilly	GCA 747945.1	D	Enteritidis	GCA 1973645.1
B	Typhimurium	GCA 3054755.1	C1	Bareilly	GCA 748445.1	D	Enteritidis	GCA 1973745.1
B	Typhimurium	GCA 1215525.1	C1	Bareilly	GCA 748485.1	D	Enteritidis	GCA 1973785.1
B	Typhimurium	GCA 1216345.1	C1	Bareilly	GCA 747985.1	D	Enteritidis	GCA 1973805.1
B	Typhimurium	GCA 1216545.1	C1	Bareilly	GCA 749315.1	D	Enteritidis	GCA 2065805.1
B	Typhimurium	GCA 1218025.1	C1	Bareilly	GCA 748585.1	D	Enteritidis	GCA 2038025.1
B	Typhimurium	GCA 1218065.1	C1	Bareilly	GCA 748825.1	D	Enteritidis	GCA 2040065.1
B	Typhimurium	GCA 1219565.1	C1	Bareilly	GCA 748985.1	D	Enteritidis	GCA 2040805.1
B	Typhimurium	GCA 1219985.1	C1	Bareilly	GCA 748005.1	D	Enteritidis	GCA 2041245.1
B	Typhimurium	GCA 1220685.1	C1	Bareilly	GCA 748385.1	D	Enteritidis	GCA 1714075.1
B	Typhimurium	GCA 1220885.1	C1	Bareilly	GCA 748765.1	D	Enteritidis	GCA 1972905.1
B	Typhimurium	GCA 1222225.1	C1	Bareilly	GCA 748705.1	D	Enteritidis	GCA 1973355.1
B	Typhimurium	GCA 1222765.1	C1	Bareilly	GCA 748645.1	D	Enteritidis	GCA 1973565.1
B	Typhimurium	GCA 312745.2	C1	Bareilly	GCA 757925.1	D	Enteritidis	GCA 3186065.1
B	Typhimurium	GCA 1222085.1	C1	Bareilly	GCA 698515.1	D	Enteritidis	GCA 2038305.1
B	Typhimurium	GCA 1244255.1	C1	Bareilly	GCA 749025.1	D	Enteritidis	GCA 2038485.1
B	Typhimurium	GCA 1244285.1	C1	Bareilly	GCA 748965.1	D	Enteritidis	GCA 2039105.1
B	Typhimurium	GCA 1246225.1	C1	Montevideo	GCA 1692045.1	D	Enteritidis	GCA 2039185.1
B	Typhimurium	GCA 1271565.1	C1	Montevideo	GCA 1691975.1	D	Enteritidis	GCA 2039705.1
B	Typhimurium	GCA 1272465.1	C1	Montevideo	GCA 189075.2	D	Enteritidis	GCA 2040135.1
B	Typhimurium	GCA 1295525.1	C1	Montevideo	GCA 1707585.1	D	Enteritidis	GCA 2040155.1
B	Typhimurium	GCA 1758525.1	C1	Montevideo	GCA 189055.2	D	Enteritidis	GCA 2040525.1
B	Typhimurium	GCA 2028525.1	C1	Montevideo	GCA 188435.2	D	Enteritidis	GCA 2042325.1
B	Typhimurium	GCA 2035445.1	C1	Montevideo	GCA 189095.2	D	Enteritidis	GCA 2042375.1
B	Typhimurium	GCA 1215665.1	C1	Montevideo	GCA 188615.2	D	Enteritidis	GCA 2042855.1
B	Typhimurium	GCA 1218225.1	C1	Montevideo	GCA 188635.2	D	Enteritidis	GCA 280235.1
B	Typhimurium	GCA 1219045.1	C1	Montevideo	GCA 242795.2	D	Enteritidis	GCA 1713985.1
B	Typhimurium	GCA 1220245.1	C1	Montevideo	GCA 188375.2	D	Enteritidis	GCA 1972625.1

B	Typhimurium	GCA 1222665.1	C1	Montevideo	GCA 188555.2	D	Enteritidis	GCA 1972715.1
B	Typhimurium	GCA 1223165.1	C1	Montevideo	GCA 189115.2	D	Enteritidis	GCA 1972865.1
B	Typhimurium	GCA 1565975.1	C1	Montevideo	GCA 188415.2	D	Enteritidis	GCA 1972985.1
B	Typhimurium	GCA 1566095.1	C1	Montevideo	GCA 240865.2	D	Enteritidis	GCA 1973115.1
B	Typhimurium	GCA 1215505.1	C1	Montevideo	GCA 240845.2	D	Enteritidis	GCA 1973165.1
B	Typhimurium	GCA 1217045.1	C1	Montevideo	GCA 189215.2	D	Enteritidis	GCA 1973385.1
B	Typhimurium	GCA 1223345.1	C1	Montevideo	GCA 188395.2	D	Enteritidis	GCA 1973675.1
B	Typhimurium	GCA 1241165.1	C1	Montevideo	GCA 188575.2	D	Enteritidis	GCA 2037885.1
B	Typhimurium	GCA 1243815.1	C1	Montevideo	GCA 188595.2	D	Enteritidis	GCA 2038885.1
B	Typhimurium	GCA 1246875.1	C1	Montevideo	GCA 1246955.1	D	Enteritidis	GCA 2039045.1
B	Typhimurium	GCA 1295745.1	C1	Montevideo	GCA 1245015.1	D	Enteritidis	GCA 2039125.1
B	Typhimurium	GCA 2033065.1	C1	Montevideo	GCA 188335.2	D	Enteritidis	GCA 2039335.1
B	Typhimurium	GCA 1216465.1	C1	Montevideo	GCA 240785.2	D	Enteritidis	GCA 2039385.1
B	Typhimurium	GCA 1217025.1	C1	Montevideo	GCA 240825.2	D	Enteritidis	GCA 2039485.1
B	Typhimurium	GCA 1218925.1	C1	Montevideo	GCA 2037075.1	D	Enteritidis	GCA 2039525.1
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B	Typhimurium	GCA 1221565.1	C1	Montevideo	GCA 188995.2	D	Enteritidis	GCA 2040205.1
B	Typhimurium	GCA 1222325.1	C1	Montevideo	GCA 238515.2	D	Enteritidis	GCA 2041095.1
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B	Typhimurium	GCA 1223025.1	C1	Montevideo	GCA 2065395.1	D	Enteritidis	GCA 2042405.1
B	Typhimurium	GCA 1326135.1	C1	Montevideo	GCA 238555.2	D	Enteritidis	GCA 2042485.1
B	Typhimurium	GCA 1217645.1	C1	Montevideo	GCA 240885.2	D	Enteritidis	GCA 329325.1
B	Typhimurium	GCA 1241505.1	C1	Montevideo	GCA 486895.1	D	Enteritidis	GCA 1714015.1
B	Typhimurium	GCA 1243105.1	C1	Montevideo	GCA 2066305.1	D	Enteritidis	GCA 1972565.1
B	Typhimurium	GCA 1272045.1	C1	Montevideo	GCA 188535.2	D	Enteritidis	GCA 1972735.1
B	Typhimurium	GCA 1477895.1	C1	Montevideo	GCA 188955.5	D	Enteritidis	GCA 1973425.1
B	Typhimurium	GCA 1478285.1	C1	Montevideo	GCA 940975.1	D	Enteritidis	GCA 1973475.1
B	Typhimurium	GCA 3120675.1	C1	Montevideo	GCA 973665.2	D	Enteritidis	GCA 2041145.1
B	Typhimurium	GCA 1216085.1	C1	Montevideo	GCA 3054535.1	D	Enteritidis	GCA 3067625.1
B	Typhimurium	GCA 1216125.1	C1	Montevideo	GCA 3073575.1	D	Enteritidis	GCA 3067665.1
B	Typhimurium	GCA 1216385.1	C1	Montevideo	GCA 3130605.1	D	Enteritidis	GCA 2038055.1
B	Typhimurium	GCA 1218505.1	C1	Montevideo	GCA 3071485.1	D	Enteritidis	GCA 2038505.1
B	Typhimurium	GCA 1218785.1	C1	Montevideo	GCA 3118775.1	D	Enteritidis	GCA 2038805.1
B	Typhimurium	GCA 1220345.1	C1	Montevideo	GCA 3121095.1	D	Enteritidis	GCA 2039145.1
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B	Typhimurium	GCA 2798525.1	C1	Montevideo	GCA 3078975.1	D	Enteritidis	GCA 1973505.1
B	Typhimurium	GCA 2798615.1	C1	Montevideo	GCA 188515.2	D	Enteritidis	GCA 1973545.1
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B	Typhimurium	GCA 1240975.1	C1	Montevideo	GCA 1480465.1	D	Enteritidis	GCA 2041035.1
B	Typhimurium	GCA 1272035.1	C1	Montevideo	GCA 238435.2	D	Enteritidis	GCA 2037835.1
B	Typhimurium	GCA 1480115.1	C1	Montevideo	GCA 238475.2	D	Enteritidis	GCA 2037905.1
B	Typhimurium	GCA 1481075.1	C1	Montevideo	GCA 1276695.1	D	Enteritidis	GCA 2038035.1
B	Typhimurium	GCA 2056945.1	C1	Montevideo	GCA 238455.2	D	Enteritidis	GCA 2038105.1
B	Typhimurium	GCA 3120695.1	C1	Montevideo	GCA 189155.2	D	Enteritidis	GCA 2038525.1
B	Typhimurium	GCA 1219165.1	C1	Montevideo	GCA 188915.2	D	Enteritidis	GCA 2039265.1
B	Typhimurium	GCA 1219825.1	C1	Montevideo	GCA 188475.2	D	Enteritidis	GCA 2040705.1
B	Typhimurium	GCA 1219905.1	C1	Montevideo	GCA 188935.2	D	Enteritidis	GCA 2040975.1
B	Typhimurium	GCA 1221585.1	C1	Montevideo	GCA 188895.2	D	Enteritidis	GCA 2041085.1
B	Typhimurium	GCA 1221925.1	C1	Montevideo	GCA 189135.2	D	Enteritidis	GCA 2041305.1
B	Typhimurium	GCA 1222025.1	C1	Montevideo	GCA 188495.2	D	Enteritidis	GCA 2041695.1
B	Typhimurium	GCA 1566035.1	C1	Montevideo	GCA 189195.2	D	Enteritidis	GCA 2042065.1
B	Typhimurium	GCA 486105.1	C1	Montevideo	GCA 335975.1	D	Enteritidis	GCA 2042305.1
B	Typhimurium	GCA 1218665.1	C1	Montevideo	GCA 188455.2	D	Enteritidis	GCA 2042635.1
B	Typhimurium	GCA 1221025.1	C1	Montevideo	GCA 1245115.1	D	Enteritidis	GCA 2042665.1
B	Typhimurium	GCA 1240935.1	C1	Montevideo	GCA 2061225.1	D	Enteritidis	GCA 1271675.1
B	Typhimurium	GCA 1240965.1	C1	Montevideo	GCA 240805.2	D	Enteritidis	GCA 1713855.1
B	Typhimurium	GCA 1478425.1	C1	Montevideo	GCA 189175.2	D	Enteritidis	GCA 2034885.1
B	Typhimurium	GCA 1478885.1	C1	Montevideo	GCA 188975.2	D	Enteritidis	GCA 3067645.1
B	Typhimurium	GCA 1595225.1	C1	Montevideo	GCA 189015.2	D	Enteritidis	GCA 3067685.1
B	Typhimurium	GCA 900003165.1	C1	Montevideo	GCA 238535.2	D	Enteritidis	GCA 1691665.1
B	Typhimurium	GCA 973885.1	C1	Montevideo	GCA 189035.2	D	Enteritidis	GCA 2037945.1
B	Typhimurium	GCA 1216765.1	C1	Tennessee	GCA 353585.1	D	Enteritidis	GCA 2037995.1
B	Typhimurium	GCA 1217245.1	C1	Tennessee	GCA 1974765.1	D	Enteritidis	GCA 2038185.1
B	Typhimurium	GCA 1218145.1	C1	Tennessee	GCA 1620735.1	D	Enteritidis	GCA 2038385.1

B	Typhimurium	GCA 1218725.1	C1	Tennessee	GCA 1620755.2	D	Enteritidis	GCA 2038455.1
B	Typhimurium	GCA 1219205.1	C1	Tennessee	GCA 1630165.1	D	Enteritidis	GCA 2038555.1
B	Typhimurium	GCA 1219445.1	C1	Tennessee	GCA 1630295.1	D	Enteritidis	GCA 2038915.1
B	Typhimurium	GCA 1219545.1	C1	Tennessee	GCA 1620725.1	D	Enteritidis	GCA 2038945.1
B	Typhimurium	GCA 1219885.1	C1	Tennessee	GCA 1630225.1	D	Enteritidis	GCA 2039165.1
B	Typhimurium	GCA 1223245.1	C1	Tennessee	GCA 1535365.1	D	Enteritidis	GCA 2039325.1
B	Typhimurium	GCA 1223365.1	C1	Tennessee	GCA 1276665.1	D	Enteritidis	GCA 2039395.1
B	Typhimurium	GCA 1326175.1	C1	Tennessee	GCA 1620405.1	D	Enteritidis	GCA 2039645.1
B	Typhimurium	GCA 614485.1	C1	Tennessee	GCA 1276675.1	D	Enteritidis	GCA 2039665.1
B	Typhimurium	GCA 319795.2	C1	Tennessee	GCA 1620865.1	D	Enteritidis	GCA 2039785.1
B	Typhimurium	GCA 1219265.1	C1	Tennessee	GCA 1620425.1	D	Enteritidis	GCA 2040005.1
B	Typhimurium	GCA 1480105.1	C1	Tennessee	GCA 1620505.1	D	Enteritidis	GCA 2040465.1
B	Typhimurium	GCA 1480285.1	C1	Tennessee	GCA 1630145.1	D	Enteritidis	GCA 2040845.1
B	Typhimurium	GCA 2035045.1	C1	Tennessee	GCA 1630135.1	D	Enteritidis	GCA 2041165.1
B	Typhimurium	GCA 3120735.1	C1	Tennessee	GCA 1620565.1	D	Enteritidis	GCA 2041325.1
B	Typhimurium	GCA 1218085.1	C1	Tennessee	GCA 1535245.1	D	Enteritidis	GCA 2041445.1
B	Typhimurium	GCA 1218105.1	C1	Tennessee	GCA 336175.1	D	Enteritidis	GCA 2041465.1
B	Typhimurium	GCA 1218565.1	C1	Tennessee	GCA 1620665.1	D	Enteritidis	GCA 2042535.1
B	Typhimurium	GCA 1219025.1	C1	Tennessee	GCA 1534835.1	D	Enteritidis	GCA 329265.1
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B	Typhimurium	GCA 1220645.1	C1	Tennessee	GCA 1620605.1	D	Enteritidis	GCA 2037895.1
B	Typhimurium	GCA 1221985.1	C1	Tennessee	GCA 1620485.1	D	Enteritidis	GCA 2038155.1
B	Typhimurium	GCA 1222365.1	C1	Tennessee	GCA 1276845.1	D	Enteritidis	GCA 2038285.1
B	Typhimurium	GCA 1223405.1	C1	Tennessee	GCA 1630235.1	D	Enteritidis	GCA 2038395.1
B	Typhimurium	GCA 474495.1	C1	Tennessee	GCA 1535445.1	D	Enteritidis	GCA 2038605.1
B	Typhimurium	GCA 1243095.1	C1	Tennessee	GCA 1630215.1	D	Enteritidis	GCA 2038765.1
B	Typhimurium	GCA 1477805.1	C1	Tennessee	GCA 1620585.1	D	Enteritidis	GCA 2038905.1
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B	Typhimurium	GCA 1480055.1	C1	Tennessee	GCA 1534825.1	D	Enteritidis	GCA 2039025.1
B	Typhimurium	GCA 1594425.1	C1	Tennessee	GCA 1534905.1	D	Enteritidis	GCA 2039445.1
B	Typhimurium	GCA 1594665.1	C1	Tennessee	GCA 1535415.1	D	Enteritidis	GCA 2039505.1
B	Typhimurium	GCA 1595195.1	C1	Tennessee	GCA 486405.2	D	Enteritidis	GCA 2039545.1
B	Typhimurium	GCA 2065055.1	C1	Tennessee	GCA 1535315.2	D	Enteritidis	GCA 2039585.1
B	Typhimurium	GCA 2091215.1	C1	Tennessee	GCA 2741865.1	D	Enteritidis	GCA 2040215.1
B	Typhimurium	GCA 1214365.1	C1	Tennessee	GCA 2741905.1	D	Enteritidis	GCA 2040395.1
B	Typhimurium	GCA 1217785.1	C1	Tennessee	GCA 3031855.1	D	Enteritidis	GCA 2040485.1
B	Typhimurium	GCA 1220305.1	C1	Tennessee	GCA 3031875.1	D	Enteritidis	GCA 2040565.1
B	Typhimurium	GCA 1221205.1	C1	Tennessee	GCA 1535385.1	D	Enteritidis	GCA 2040915.1
B	Typhimurium	GCA 1221325.1	C1	Tennessee	GCA 173695.1	D	Enteritidis	GCA 2041125.1
B	Typhimurium	GCA 1221425.1	C1	Tennessee	GCA 1534845.1	D	Enteritidis	GCA 2041205.1
B	Typhimurium	GCA 1222705.1	C1	Tennessee	GCA 1620645.1	D	Enteritidis	GCA 2041265.1
B	Typhimurium	GCA 1223085.1	C1	Tennessee	GCA 1535485.1	D	Enteritidis	GCA 2041535.1
B	Typhimurium	GCA 1223125.1	C1	Tennessee	GCA 1620685.1	D	Enteritidis	GCA 2042075.1
B	Typhimurium	GCA 1565935.1	C1	Tennessee	GCA 1535405.1	D	Enteritidis	GCA 2042685.1
B	Typhimurium	GCA 2798775.1	C1	Tennessee	GCA 1620415.1	D	Enteritidis	GCA 278485.1
B	Typhimurium	GCA 1241515.1	C1	Tennessee	GCA 1620705.1	D	Enteritidis	GCA 329225.1
B	Typhimurium	GCA 1479695.1	C1	Tennessee	GCA 1630315.1	D	Enteritidis	GCA 127215.1
B	Typhimurium	GCA 1594455.1	C1	Tennessee	GCA 1630155.1	D	Enteritidis	GCA 1973105.1
B	Typhimurium	GCA 3119835.1	C1	Tennessee	GCA 1620495.1	D	Enteritidis	GCA 1973465.1
B	Typhimurium	GCA 974215.1	C1	Tennessee	GCA 1535025.1	D	Enteritidis	GCA 2066495.1
B	Typhimurium	GCA 1214745.1	C1	Tennessee	GCA 1535455.1	D	Enteritidis	GCA 2037985.1
B	Typhimurium	GCA 1219085.1	C1	Tennessee	GCA 1534985.1	D	Enteritidis	GCA 2038325.1
B	Typhimurium	GCA 1221225.1	C1	Thompson	GCA 1691965.1	D	Enteritidis	GCA 2038645.1
B	Typhimurium	GCA 1222245.1	C1	Thompson	GCA 1692105.1	D	Enteritidis	GCA 2038825.1
B	Typhimurium	GCA 1326255.1	C1	Thompson	GCA 1240525.1	D	Enteritidis	GCA 2038865.1
B	Typhimurium	GCA 1559855.1	C1	Thompson	GCA 2106065.1	D	Enteritidis	GCA 2039365.1
B	Typhimurium	GCA 1217865.1	C1	Thompson	GCA 2107385.1	D	Enteritidis	GCA 2039905.1
B	Typhimurium	GCA 1219125.1	C1	Thompson	GCA 1242585.1	D	Enteritidis	GCA 2040085.1
B	Typhimurium	GCA 1220025.1	C1	Thompson	GCA 2105905.1	D	Enteritidis	GCA 2040095.1
B	Typhimurium	GCA 1221185.1	C1	Thompson	GCA 2105955.1	D	Enteritidis	GCA 2040545.1
B	Typhimurium	GCA 1241555.1	C1	Thompson	GCA 2106795.1	D	Enteritidis	GCA 2040835.1
B	Typhimurium	GCA 1480225.1	C1	Thompson	GCA 973955.1	D	Enteritidis	GCA 2041275.1
B	Typhimurium	GCA 1594525.1	C1	Thompson	GCA 2106375.1	D	Enteritidis	GCA 2041385.1
B	Typhimurium	GCA 1216985.1	C1	Thompson	GCA 2108215.1	D	Enteritidis	GCA 2041605.1
B	Typhimurium	GCA 1218805.1	C1	Thompson	GCA 2107615.1	D	Enteritidis	GCA 2041685.1
B	Typhimurium	GCA 1219005.1	C1	Thompson	GCA 2107305.1	D	Enteritidis	GCA 2041705.1
B	Typhimurium	GCA 1220365.1	C1	Thompson	GCA 1240735.1	D	Enteritidis	GCA 2042175.1
B	Typhimurium	GCA 1220465.1	C1	Thompson	GCA 1240555.1	D	Enteritidis	GCA 2042185.1

B	Typhimurium	GCA 1220925.1	C1	Thompson	GCA 2106145.1	D	Enteritidis	GCA 2042565.1
B	Typhimurium	GCA 1221125.1	C1	Thompson	GCA 2106635.1	D	Enteritidis	GCA 2042625.1
B	Typhimurium	GCA 1221645.1	C1	Thompson	GCA 2106665.1	D	Enteritidis	GCA 2042845.1
B	Typhimurium	GCA 1222965.1	C1	Thompson	GCA 2059565.1	D	Enteritidis	GCA 329245.1
B	Typhimurium	GCA 2798855.1	C1	Thompson	GCA 2059915.1	D	Enteritidis	GCA 1240265.1
B	Typhimurium	GCA 1217945.1	C1	Thompson	GCA 1478265.1	D	Enteritidis	GCA 1272485.1
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B	Typhimurium	GCA 1218745.1	C1	Thompson	GCA 315995.1	D	Enteritidis	GCA 2038135.1
B	Typhimurium	GCA 1219425.1	C1	Thompson	GCA 2059885.1	D	Enteritidis	GCA 2038345.1
B	Typhimurium	GCA 1221305.1	C1	Thompson	GCA 1479545.1	D	Enteritidis	GCA 2038685.1
B	Typhimurium	GCA 1222165.1	C1	Thompson	GCA 2061345.1	D	Enteritidis	GCA 2038745.1
B	Typhimurium	GCA 336155.1	C1	Thompson	GCA 473275.1	D	Enteritidis	GCA 2038965.1
B	Typhimurium	GCA 1478625.1	C1	Thompson	GCA 486365.2	D	Enteritidis	GCA 2039005.1
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B	Typhimurium	GCA 1594585.1	C1	Thompson	GCA 1305835.1	D	Enteritidis	GCA 2039295.1
B	Typhimurium	GCA 1955215.1	C1	Thompson	GCA 1953015.1	D	Enteritidis	GCA 2040015.1
B	Typhimurium	GCA 2032705.1	C1	Thompson	GCA 3052785.2	D	Enteritidis	GCA 2040245.1
B	Typhimurium	GCA 1214485.1	C1	Thompson	GCA 3117275.1	D	Enteritidis	GCA 2040315.1
B	Typhimurium	GCA 1217425.1	C1	Thompson	GCA 3120165.1	D	Enteritidis	GCA 2040605.1
B	Typhimurium	GCA 1217705.1	C1	Thompson	GCA 3119225.1	D	Enteritidis	GCA 2040615.1
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B	Typhimurium	GCA 1220545.1	C1	Braenderup	GCA 2234775.1	D	Enteritidis	GCA 2041545.1
B	Typhimurium	GCA 1221725.1	C1	Braenderup	GCA 1833885.1	D	Enteritidis	GCA 2041665.1
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B	Typhimurium	GCA 312845.2	C1	Braenderup	GCA 2059815.1	D	Enteritidis	GCA 2042245.1
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B	Typhimurium	GCA 2091115.1	C1	Braenderup	GCA 3120335.1	D	Enteritidis	GCA 1479035.1
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B	Typhimurium	GCA 900003365.1	C1	Braenderup	GCA 3117675.1	D	Enteritidis	GCA 1972575.1
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B	Typhimurium	GCA 1220525.1	C1	Braenderup	GCA 3118995.1	D	Enteritidis	GCA 2037965.1
B	Typhimurium	GCA 1221765.1	C1	Braenderup	GCA 3119535.1	D	Enteritidis	GCA 2038365.1
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B	Typhimurium	GCA 1220945.1	C1	Braenderup	GCA 3117395.1	D	Enteritidis	GCA 2042015.1
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B	Typhimurium	GCA 900003065.1	C1	Braenderup	GCA 3119935.1	D	Enteritidis	GCA 1714065.1
B	Typhimurium	GCA 1214965.1	C1	Oranienburg	GCA 486815.2	D	Enteritidis	GCA 2060155.1
B	Typhimurium	GCA 1219405.1	C1	Oranienburg	GCA 1880105.1	D	Enteritidis	GCA 2242555.1
B	Typhimurium	GCA 1221505.1	C1	Oranienburg	GCA 1879795.1	D	Enteritidis	GCA 2038255.1
B	Typhimurium	GCA 1223505.1	C1	Oranienburg	GCA 1879765.1	D	Enteritidis	GCA 2038425.1
B	Typhimurium	GCA 1594625.1	C1	Oranienburg	GCA 1879785.1	D	Enteritidis	GCA 2039755.1
B	Typhimurium	GCA 1955475.1	C1	Oranienburg	GCA 2061275.1	D	Enteritidis	GCA 2039855.1
B	Typhimurium	GCA 900003155.1	C1	Oranienburg	GCA 1879855.1	D	Enteritidis	GCA 2040255.1

B	Typhimurium	GCA 1216425.1	C1	Oranienburg	GCA 1879955.1	D	Enteritidis	GCA 2040325.1
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B	Typhimurium	GCA 1221365.1	C1	Oranienburg	GCA 2032155.1	D	Enteritidis	GCA 2040665.1
B	Typhimurium	GCA 1222565.1	C1	Oranienburg	GCA 1879905.1	D	Enteritidis	GCA 2040675.1
B	Typhimurium	GCA 1223265.1	C1	Oranienburg	GCA 3077255.1	D	Enteritidis	GCA 2041025.1
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B	Typhimurium	GCA 900002675.1	C1	Oranienburg	GCA 1880025.1	D	Enteritidis	GCA 2041925.1
B	Typhimurium	GCA 1215785.1	C1	Oranienburg	GCA 2062305.1	D	Enteritidis	GCA 2041935.1
B	Typhimurium	GCA 1220065.1	C1	Oranienburg	GCA 3120855.1	D	Enteritidis	GCA 2042005.1
B	Typhimurium	GCA 1220505.1	C1	Oranienburg	GCA 2059755.1	D	Enteritidis	GCA 2042595.1
B	Typhimurium	GCA 1223465.1	C1	Oranienburg	GCA 1879925.1	D	Enteritidis	GCA 2042785.1
B	Typhimurium	GCA 1272095.1	C1	Oranienburg	GCA 1880015.1	D	Enteritidis	GCA 2076985.1
B	Typhimurium	GCA 1479065.1	C1	Oranienburg	GCA 3078255.1	D	Enteritidis	GCA 280175.1
B	Typhimurium	GCA 1479925.1	C1	Oranienburg	GCA 1880035.1	D	Enteritidis	GCA 280375.1
B	Typhimurium	GCA 974015.1	C1	Oranienburg	GCA 1879845.1	D	Enteritidis	GCA 1271895.1
B	Typhimurium	GCA 1216445.1	C1	Oranienburg	GCA 1879935.1	D	Enteritidis	GCA 1972555.1
B	Typhimurium	GCA 1216585.1	C1	Oranienburg	GCA 1879975.1	D	Enteritidis	GCA 2039715.1
B	Typhimurium	GCA 1220625.1	C1	Oranienburg	GCA 1879865.1	D	Enteritidis	GCA 2038225.1
B	Typhimurium	GCA 1271715.1	C1	Oranienburg	GCA 1880085.1	D	Enteritidis	GCA 2042925.1
B	Typhimurium	GCA 2036205.1	C1	Oranienburg	GCA 2064215.1	D	Enteritidis	GCA 2039425.1
B	Typhimurium	GCA 2090955.1	C1	Oranienburg	GCA 2156335.1	D	Enteritidis	GCA 2039815.1
B	Typhimurium	GCA 1215405.1	C1	Oranienburg	GCA 495315.1	D	Enteritidis	GCA 2040045.1
B	Typhimurium	GCA 1219185.1	C1	Mbandaka	GCA 2234515.1	D	Enteritidis	GCA 2040125.1
B	Typhimurium	GCA 1219285.1	C1	Mbandaka	GCA 2064445.1	D	Enteritidis	GCA 2040365.1
B	Typhimurium	GCA 1220165.1	C1	Mbandaka	GCA 2064435.1	D	Enteritidis	GCA 2041375.1
B	Typhimurium	GCA 1245535.1	C1	Mbandaka	GCA 2066805.1	D	Enteritidis	GCA 2041425.1
B	Typhimurium	GCA 1955195.1	C1	Mbandaka	GCA 1247475.1	D	Enteritidis	GCA 2041455.1
B	Typhimurium	GCA 2031405.1	C1	Mbandaka	GCA 1247255.1	D	Enteritidis	GCA 2041525.1
B	Typhimurium	GCA 2090935.1	C1	Mbandaka	GCA 1242775.1	D	Enteritidis	GCA 2041825.1
B	Typhimurium	GCA 2091335.1	C1	Mbandaka	GCA 2036225.1	D	Enteritidis	GCA 2041845.1
B	Typhimurium	GCA 3186345.1	C1	Mbandaka	GCA 2030575.1	D	Enteritidis	GCA 2041885.1
B	Typhimurium	GCA 1215885.1	C1	Mbandaka	GCA 1835085.1	D	Enteritidis	GCA 2042225.1
B	Typhimurium	GCA 1216485.1	C1	Mbandaka	GCA 2064455.1	D	Enteritidis	GCA 2042235.1
B	Typhimurium	GCA 1221405.1	C1	Mbandaka	GCA 1833595.1	D	Enteritidis	GCA 2042255.1
B	Typhimurium	GCA 1221905.1	C1	Mbandaka	GCA 2064495.1	D	Enteritidis	GCA 2042395.1
B	Typhimurium	GCA 1222485.1	C1	Mbandaka	GCA 1480505.1	D	Enteritidis	GCA 2042795.1
B	Typhimurium	GCA 1222505.1	C1	Mbandaka	GCA 1478205.1	D	Enteritidis	GCA 2042825.1
B	Typhimurium	GCA 312905.2	C1	Mbandaka	GCA 1481155.1	D	Enteritidis	GCA 278465.1
B	Typhimurium	GCA 2032165.1	C1	Mbandaka	GCA 1479985.1	D	Enteritidis	GCA 280355.1
B	Typhimurium	GCA 2091235.1	C1	Mbandaka	GCA 416295.1	D	Enteritidis	GCA 329045.1
B	Typhimurium	GCA 648435.2	C1	Mbandaka	GCA 1272395.1	D	Enteritidis	GCA 329165.1
B	Typhimurium	GCA 1216605.1	C1	Mbandaka	GCA 486915.2	D	Enteritidis	GCA 329205.1
B	Typhimurium	GCA 1220445.1	C1	Mbandaka	GCA 2062345.1	D	Enteritidis	GCA 329605.1
B	Typhimurium	GCA 1221605.1	C1	Mbandaka	GCA 3067485.1	D	Enteritidis	GCA 2061465.1
B	Typhimurium	GCA 312865.2	C1	Mbandaka	GCA 2065465.1	D	Enteritidis	GCA 2038205.1
B	Typhimurium	GCA 1955415.1	C1	Mbandaka	GCA 316015.1	D	Enteritidis	GCA 2038215.1
B	Typhimurium	GCA 1214325.1	C1	Mbandaka	GCA 3119495.1	D	Enteritidis	GCA 2039915.1
B	Typhimurium	GCA 1216205.1	C1	Mbandaka	GCA 3118795.1	D	Enteritidis	GCA 2039985.1
B	Typhimurium	GCA 1217385.1	C1	Virchow	GCA 171535.2	D	Enteritidis	GCA 2040285.1
B	Typhimurium	GCA 1220665.1	C1	Virchow	GCA 516855.1	D	Enteritidis	GCA 2040595.1
B	Typhimurium	GCA 1221065.1	C1	Virchow	GCA 2063525.1	D	Enteritidis	GCA 2040885.1
B	Typhimurium	GCA 1595185.1	C1	Virchow	GCA 2049385.1	D	Enteritidis	GCA 2040985.1
B	Typhimurium	GCA 1955465.1	C1	Virchow	GCA 2049055.1	D	Enteritidis	GCA 2041775.1
B	Typhimurium	GCA 1217265.1	C1	Virchow	GCA 2063555.1	D	Enteritidis	GCA 2041905.1
B	Typhimurium	GCA 1217765.1	C1	Virchow	GCA 2063495.1	D	Enteritidis	GCA 2042025.1
B	Typhimurium	GCA 1218865.1	C1	Virchow	GCA 2063155.1	D	Enteritidis	GCA 278545.1
B	Typhimurium	GCA 1295635.1	C1	Virchow	GCA 2063545.1	D	Enteritidis	GCA 280215.1
B	Typhimurium	GCA 2058005.1	C1	Virchow	GCA 2065025.1	D	Enteritidis	GCA 329305.1
B	Typhimurium	GCA 648415.2	C1	Virchow	GCA 2156325.1	D	Enteritidis	GCA 329565.1
B	Typhimurium	GCA 1218305.1	C1	Virchow	GCA 486285.1	D	Enteritidis	GCA 1643395.1
B	Typhimurium	GCA 2270545.1	C1	Choleraesuis	GCA 187565.1	D	Enteritidis	GCA 973935.1
B	Typhimurium	GCA 1595305.1	C1	Choleraesuis	GCA 2045165.1	D	Enteritidis	GCA 1102865.1
B	Typhimurium	GCA 1614025.1	C1	Choleraesuis	GCA 2044825.1	D	Enteritidis	GCA 2038065.1
B	Typhimurium	GCA 1955385.1	C1	Choleraesuis	GCA 2045865.1	D	Enteritidis	GCA 2038585.1
B	Typhimurium	GCA 1217905.1	C1	Choleraesuis	GCA 2045915.1	D	Enteritidis	GCA 2038625.1
B	Typhimurium	GCA 1220585.1	C1	Choleraesuis	GCA 487315.1	D	Enteritidis	GCA 2039285.1
B	Typhimurium	GCA 1221805.1	C1	Choleraesuis	GCA 487295.2	D	Enteritidis	GCA 2040445.1
B	Typhimurium	GCA 2091095.1	C1	Choleraesuis	GCA 742815.1	D	Enteritidis	GCA 2040925.1
B	Typhimurium	GCA 2798725.1	C1	Choleraesuis	GCA 8105.1	D	Enteritidis	GCA 2041615.1
B	Typhimurium	GCA 1243555.1	C1	Rissen	GCA 2044955.1	D	Enteritidis	GCA 2041745.1

B	Typhimurium	GCA 1955345.1	C1	Rissen	GCA 2045825.1	D	Enteritidis	GCA 2042105.1
B	Typhimurium	GCA 2035055.1	C1	Rissen	GCA 335835.1	D	Enteritidis	GCA 2076975.1
B	Typhimurium	GCA 900002645.1	C1	Rissen	GCA 2062455.1	D	Enteritidis	GCA 280295.1
B	Typhimurium	GCA 312765.2	C1	Rissen	GCA 2064035.1	D	Enteritidis	GCA 280395.1
B	Typhimurium	GCA 1243425.1	C1	Livingstone	GCA 956125.1	D	Enteritidis	GCA 329105.1
B	Typhimurium	GCA 1295665.1	C1	Livingstone	GCA 2062375.1	D	Enteritidis	GCA 329285.1
B	Typhimurium	GCA 1595145.1	C1	Livingstone	GCA 1241775.1	D	Enteritidis	GCA 2066435.1
B	Typhimurium	GCA 1217605.1	C1	Paratyphi C	GCA 18385.1	D	Enteritidis	GCA 2107235.1
B	Typhimurium	GCA 1565955.1	C1	Isangi	GCA 2064825.1	D	Enteritidis	GCA 2038665.1
B	Typhimurium	GCA 1566175.1	C1	Ohio	GCA 1241475.1	D	Enteritidis	GCA 2040305.1
B	Typhimurium	GCA 1221105.1	C1	Ohio	GCA 1478795.1	D	Enteritidis	GCA 2040735.1
B	Typhimurium	GCA 1243695.1	C1	Ohio	GCA 2031335.1	D	Enteritidis	GCA 2041955.1
B	Typhimurium	GCA 1955305.1	C1	Ohio	GCA 2048745.1	D	Enteritidis	GCA 2042165.1
B	Typhimurium	GCA 2033165.1	C1	Ohio	GCA 2048805.1	D	Enteritidis	GCA 2077015.1
B	Typhimurium	GCA 1216705.1	C1	Ohio	GCA 2048905.1	D	Enteritidis	GCA 280135.1
B	Typhimurium	GCA 1217345.1	C1	Ohio	GCA 2048935.1	D	Enteritidis	GCA 280335.1
B	Typhimurium	GCA 1219105.1	C1	Hartford	GCA 293055.1	D	Enteritidis	GCA 329405.1
B	Typhimurium	GCA 1219645.1	C1	Hartford	GCA 412935.1	D	Enteritidis	GCA 1271955.1
B	Typhimurium	GCA 1221445.1	C1	Hartford	GCA 487875.1	D	Enteritidis	GCA 1272015.1
B	Typhimurium	GCA 1594595.1	C1	Hartford	GCA 2058515.1	D	Enteritidis	GCA 2040385.1
B	Typhimurium	GCA 1595355.1	C1	Hartford	GCA 2058735.1	D	Enteritidis	GCA 2040765.1
B	Typhimurium	GCA 1954895.1	C1	Hartford	GCA 2106515.1	D	Enteritidis	GCA 2041215.1
B	Typhimurium	GCA 2090945.1	C1	Hartford	GCA 2241695.2	D	Enteritidis	GCA 2042365.1
B	Typhimurium	GCA 648475.2	C1	Hartford	GCA 2241735.2	D	Enteritidis	GCA 2042455.1
B	Typhimurium	GCA 1295155.1	C1	Concord	GCA 3030265.1	D	Enteritidis	GCA 2042495.1
B	Typhimurium	GCA 1479125.1	C1	Concord	GCA 2062415.1	D	Enteritidis	GCA 261985.1
B	Typhimurium	GCA 3118355.1	C1	Concord	GCA 2065885.1	D	Enteritidis	GCA 329345.1
B	Typhimurium	GCA 1215585.1	C1	Concord	GCA 2065915.1	D	Enteritidis	GCA 329525.1
B	Typhimurium	GCA 1244705.1	C1	Concord	GCA 2065935.1	D	Enteritidis	GCA 329805.1
B	Typhimurium	GCA 1245125.1	C1	Oslo	GCA 2046815.1	D	Enteritidis	GCA 1271905.1
B	Typhimurium	GCA 1595105.1	C1	Oslo	GCA 2048195.1	D	Enteritidis	GCA 1271955.1
B	Typhimurium	GCA 900007435.1	C2	Newport	GCA 751335.1	D	Enteritidis	GCA 1713775.1
B	Typhimurium	GCA 1218125.1	C2	Newport	GCA 1835415.1	D	Enteritidis	GCA 2065775.1
B	Typhimurium	GCA 1221625.1	C2	Newport	GCA 272935.1	D	Enteritidis	GCA 2039745.1
B	Typhimurium	GCA 1222145.1	C2	Newport	GCA 2241515.1	D	Enteritidis	GCA 2040585.1
B	Typhimurium	GCA 312825.2	C2	Newport	GCA 2241635.1	D	Enteritidis	GCA 2041765.1
B	Typhimurium	GCA 1240785.1	C2	Newport	GCA 272575.1	D	Enteritidis	GCA 2042675.1
B	Typhimurium	GCA 1295675.1	C2	Newport	GCA 2106575.1	D	Enteritidis	GCA 280115.1
B	Typhimurium	GCA 1477745.1	C2	Newport	GCA 2241705.1	D	Enteritidis	GCA 280455.1
B	Typhimurium	GCA 1477855.1	C2	Newport	GCA 1834665.1	D	Enteritidis	GCA 1238365.1
B	Typhimurium	GCA 2091275.1	C2	Newport	GCA 483775.1	D	Enteritidis	GCA 1478145.1
B	Typhimurium	GCA 900002925.1	C2	Newport	GCA 2107255.1	D	Enteritidis	GCA 1714025.1
B	Typhimurium	GCA 900003265.1	C2	Newport	GCA 2242475.1	D	Enteritidis	GCA 1691655.1
B	Typhimurium	GCA 1222345.1	C2	Newport	GCA 2242215.1	D	Enteritidis	GCA 2038115.1
B	Typhimurium	GCA 1223305.1	C2	Newport	GCA 1835255.1	D	Enteritidis	GCA 2041575.1
B	Typhimurium	GCA 1478125.1	C2	Newport	GCA 2241665.1	D	Enteritidis	GCA 2077315.1
B	Typhimurium	GCA 2030885.1	C2	Newport	GCA 2241615.1	D	Enteritidis	GCA 280475.1
B	Typhimurium	GCA 2032975.1	C2	Newport	GCA 2242395.1	D	Enteritidis	GCA 329385.1
B	Typhimurium	GCA 1214545.1	C2	Newport	GCA 2242365.1	D	Enteritidis	GCA 1713945.1
B	Typhimurium	GCA 1216845.1	C2	Newport	GCA 272535.1	D	Enteritidis	GCA 2038705.1
B	Typhimurium	GCA 1480775.1	C2	Newport	GCA 2107585.1	D	Enteritidis	GCA 2038785.1
B	Typhimurium	GCA 1955295.1	C2	Newport	GCA 2263135.1	D	Enteritidis	GCA 2042115.1
B	Typhimurium	GCA 1955315.1	C2	Newport	GCA 16045.1	D	Enteritidis	GCA 329625.1
B	Typhimurium	GCA 1955375.1	C2	Newport	GCA 271885.2	D	Enteritidis	GCA 1478845.1
B	Typhimurium	GCA 1479155.1	C2	Newport	GCA 271905.2	D	Enteritidis	GCA 3067565.1
B	Typhimurium	GCA 2091025.1	C2	Newport	GCA 272715.4	D	Enteritidis	GCA 2038445.1
B	Typhimurium	GCA 900003225.1	C2	Newport	GCA 272735.4	D	Enteritidis	GCA 2042315.1
B	Typhimurium	GCA 1218585.1	C2	Newport	GCA 272755.4	D	Enteritidis	GCA 2107355.1
B	Typhimurium	GCA 1218685.1	C2	Newport	GCA 272775.4	D	Enteritidis	GCA 2039845.1
B	Typhimurium	GCA 1220865.1	C2	Newport	GCA 272815.2	D	Enteritidis	GCA 2039965.1
B	Typhimurium	GCA 1223105.1	C2	Newport	GCA 272835.4	D	Enteritidis	GCA 2041505.1
B	Typhimurium	GCA 2300245.2	C2	Newport	GCA 272895.3	D	Enteritidis	GCA 2042445.1
B	Typhimurium	GCA 1595235.1	C2	Newport	GCA 442415.1	D	Enteritidis	GCA 280255.1
B	Typhimurium	GCA 1955225.1	C2	Newport	GCA 973685.1	D	Enteritidis	GCA 280275.1
B	Typhimurium	GCA 1955395.1	C2	Newport	GCA 1278315.1	D	Enteritidis	GCA 1271575.1
B	Typhimurium	GCA 2035635.1	C2	Newport	GCA 1890165.1	D	Enteritidis	GCA 2906985.1
B	Typhimurium	GCA 2063725.1	C2	Newport	GCA 1922165.1	D	Enteritidis	GCA 329065.1
B	Typhimurium	GCA 2091015.1	C2	Newport	GCA 272795.2	D	Enteritidis	GCA 329085.1
B	Typhimurium	GCA 2091185.1	C2	Newport	GCA 1278275.1	D	Enteritidis	GCA 329545.1
B	Typhimurium	GCA 2091345.1	C2	Newport	GCA 1278295.1	D	Enteritidis	GCA 329825.1
B	Typhimurium	GCA 1295495.1	C2	Newport	GCA 1890185.1	D	Enteritidis	GCA 1973515.1

B	Typhimurium	GCA 1478065.1	C2	Newport	GCA 1890445.1	D	Enteritidis	GCA 2042745.1
B	Typhimurium	GCA 2264585.1	C2	Newport	GCA 2241545.2	D	Enteritidis	GCA 280095.1
B	Typhimurium	GCA 1594935.1	C2	Newport	GCA 3119735.1	D	Enteritidis	GCA 280155.1
B	Typhimurium	GCA 1955265.1	C2	Newport	GCA 3079195.1	D	Enteritidis	GCA 280415.1
B	Typhimurium	GCA 2030565.1	C2	Newport	GCA 3119015.1	D	Enteritidis	GCA 329585.1
B	Typhimurium	GCA 2057985.1	C2	Newport	GCA 3121155.1	D	Enteritidis	GCA 2065685.1
B	Typhimurium	GCA 900019235.1	C2	Newport	GCA 3120495.1	D	Enteritidis	GCA 2242565.1
B	Typhimurium	GCA 1219845.1	C2	Newport	GCA 3117935.1	D	Enteritidis	GCA 3067575.1
B	Typhimurium	GCA 1219865.1	C2	Newport	GCA 3120835.1	D	Enteritidis	GCA 280435.1
B	Typhimurium	GCA 1222205.1	C2	Newport	GCA 3117815.1	D	Enteritidis	GCA 2242595.1
B	Typhimurium	GCA 486125.1	C2	Newport	GCA 3200935.1	D	Enteritidis	GCA 280075.1
B	Typhimurium	GCA 1595315.1	C2	Newport	GCA 3078315.1	D	Enteritidis	GCA 329725.1
B	Typhimurium	GCA 2034985.1	C2	Newport	GCA 3118015.1	D	Enteritidis	GCA 329925.1
B	Typhimurium	GCA 2058595.1	C2	Newport	GCA 3118095.1	D	Enteritidis	GCA 329485.1
B	Typhimurium	GCA 2091255.1	C2	Newport	GCA 3200295.1	D	Enteritidis	GCA 329745.1
B	Typhimurium	GCA 2252405.2	C2	Newport	GCA 3077555.1	D	Enteritidis	GCA 330565.1
B	Typhimurium	GCA 1479365.1	C2	Newport	GCA 3117405.1	D	Enteritidis	GCA 2030505.1
B	Typhimurium	GCA 1221045.1	C2	Newport	GCA 3117595.1	D	Enteritidis	GCA 329505.1
B	Typhimurium	GCA 2300265.2	C2	Newport	GCA 3200335.1	D	Enteritidis	GCA 329185.1
B	Typhimurium	GCA 1594955.1	C2	Newport	GCA 3200905.1	D	Enteritidis	GCA 329705.1
B	Typhimurium	GCA 2030385.1	C2	Newport	GCA 3077515.1	D	Enteritidis	GCA 1271615.1
B	Typhimurium	GCA 2090995.1	C2	Newport	GCA 3117955.1	D	Enteritidis	GCA 1655705.1
B	Typhimurium	GCA 1222945.1	C2	Newport	GCA 3118755.1	D	Enteritidis	GCA 330585.1
B	Typhimurium	GCA 2283275.1	C2	Newport	GCA 3077855.1	D	Enteritidis	GCA 329645.1
B	Typhimurium	GCA 1479335.1	C2	Newport	GCA 3120315.1	D	Enteritidis	GCA 329885.1
B	Typhimurium	GCA 2283795.1	C2	Newport	GCA 3201025.1	D	Enteritidis	GCA 2035985.1
B	Typhimurium	GCA 2300295.2	C2	Newport	GCA 3117145.1	D	Enteritidis	GCA 2909165.1
B	Typhimurium	GCA 1480485.1	C2	Newport	GCA 3117835.1	D	Enteritidis	GCA 329445.1
B	Typhimurium	GCA 1218385.1	C2	Newport	GCA 3199635.1	D	Enteritidis	GCA 1973435.1
B	Typhimurium	GCA 1218405.1	C2	Newport	GCA 3201055.1	D	Enteritidis	GCA 329425.1
B	Typhimurium	GCA 1218765.1	C2	Newport	GCA 3119795.1	D	Enteritidis	GCA 329465.1
B	Typhimurium	GCA 1480265.1	C2	Newport	GCA 2242445.1	D	Enteritidis	GCA 329765.1
B	Typhimurium	GCA 2018355.1	C2	Newport	GCA 1834705.1	D	Enteritidis	GCA 329785.1
B	Typhimurium	GCA 3186365.1	C2	Newport	GCA 3117795.1	D	Enteritidis	GCA 329905.1
B	Typhimurium	GCA 900002695.1	C2	Newport	GCA 3077435.1	D	Enteritidis	GCA 330005.1
B	Typhimurium	GCA 900003115.1	C2	Newport	GCA 3120195.1	D	Enteritidis	GCA 2065735.1
B	Typhimurium	GCA 1222645.1	C2	Newport	GCA 3201095.1	D	Enteritidis	GCA 335895.1
B	Typhimurium	GCA 1241585.1	C2	Newport	GCA 3078635.1	D	Enteritidis	GCA 1271685.1
B	Typhimurium	GCA 1480085.1	C2	Newport	GCA 272875.1	D	Enteritidis	GCA 2062685.1
B	Typhimurium	GCA 1955455.1	C2	Newport	GCA 474375.1	D	Enteritidis	GCA 329945.1
B	Typhimurium	GCA 900002905.1	C2	Newport	GCA 1051555.1	D	Enteritidis	GCA 2066535.1
B	Typhimurium	GCA 1244695.1	C2	Newport	GCA 1051695.1	D	Enteritidis	GCA 2033105.1
B	Typhimurium	GCA 2062935.1	C2	Newport	GCA 3117695.1	D	Enteritidis	GCA 2063265.1
B	Typhimurium	GCA 1271835.1	C2	Newport	GCA 3119475.1	D	Enteritidis	GCA 2242515.1
B	Typhimurium	GCA 2300255.2	C2	Newport	GCA 2242335.1	D	Enteritidis	GCA 1272255.1
B	Typhimurium	GCA 1481235.1	C2	Newport	GCA 272555.1	D	Enteritidis	GCA 1479885.1
B	Typhimurium	GCA 1955235.1	C2	Newport	GCA 2106655.1	D	Enteritidis	GCA 330245.1
B	Typhimurium	GCA 2091045.1	C2	Newport	GCA 3121115.1	D	Enteritidis	GCA 330305.1
B	Typhimurium	GCA 900003195.1	C2	Newport	GCA 272635.1	D	Enteritidis	GCA 313715.2
B	Typhimurium	GCA 1295415.1	C2	Newport	GCA 272655.1	D	Enteritidis	GCA 329665.1
B	Typhimurium	GCA 900002665.1	C2	Newport	GCA 474535.1	D	Enteritidis	GCA 1272125.1
B	Typhimurium	GCA 1219665.1	C2	Newport	GCA 1834645.1	D	Enteritidis	GCA 2041065.1
B	Typhimurium	GCA 1242345.1	C2	Newport	GCA 2242355.1	D	Enteritidis	GCA 330085.1
B	Typhimurium	GCA 1478045.1	C2	Newport	GCA 3118075.1	D	Enteritidis	GCA 1243345.1
B	Typhimurium	GCA 1594915.1	C2	Newport	GCA 3120515.1	D	Enteritidis	GCA 329965.1
B	Typhimurium	GCA 1595155.1	C2	Newport	GCA 2242275.1	D	Enteritidis	GCA 1280185.1
B	Typhimurium	GCA 2091075.1	C2	Newport	GCA 1051605.1	D	Enteritidis	GCA 330105.1
B	Typhimurium	GCA 648455.2	C2	Newport	GCA 1051625.1	D	Enteritidis	GCA 2034005.1
B	Typhimurium	GCA 1219505.1	C2	Newport	GCA 1051705.1	D	Enteritidis	GCA 1972675.1
B	Typhimurium	GCA 1222065.1	C2	Newport	GCA 2242295.1	D	Enteritidis	GCA 2032355.1
B	Typhimurium	GCA 784225.1	C2	Newport	GCA 2242535.1	D	Enteritidis	GCA 329985.1
B	Typhimurium	GCA 1477735.1	C2	Newport	GCA 3078535.1	D	Enteritidis	GCA 330345.1
B	Typhimurium	GCA 2030775.1	C2	Newport	GCA 1051615.1	D	Enteritidis	GCA 1271415.1
B	Typhimurium	GCA 900006005.1	C2	Newport	GCA 2106745.1	D	Enteritidis	GCA 2030735.1
B	Typhimurium	GCA 1595275.1	C2	Newport	GCA 1051685.1	D	Enteritidis	GCA 330205.1
B	Typhimurium	GCA 900005975.1	C2	Newport	GCA 3120375.1	D	Enteritidis	GCA 1271975.1
B	Typhimurium	GCA 784315.1	C2	Newport	GCA 474515.1	D	Enteritidis	GCA 2810205.1
B	Typhimurium	GCA 2035105.1	C2	Newport	GCA 2065355.1	D	Enteritidis	GCA 278505.1
B	Typhimurium	GCA 900003285.1	C2	Newport	GCA 272855.1	D	Enteritidis	GCA 1973225.1
B	Typhimurium	GCA 1241945.1	C2	Newport	GCA 272915.1	D	Enteritidis	GCA 330125.1
B	Typhimurium	GCA 1479325.1	C2	Newport	GCA 3117555.1	D	Enteritidis	GCA 330265.1

B	Typhimurium	GCA 1241975.1	C2	Newport	GCA 171415.1	D	Enteritidis	GCA 1272285.1
B	Typhimurium	GCA 900003355.1	C2	Newport	GCA 272615.1	D	Enteritidis	GCA 330425.1
B	Typhimurium	GCA 900003175.1	C2	Newport	GCA 272695.1	D	Enteritidis	GCA 1271735.1
B	Typhimurium	GCA 784215.1	C2	Newport	GCA 2107185.1	D	Enteritidis	GCA 329845.1
B	Typhimurium	GCA 1242395.1	C2	Newport	GCA 272955.1	D	Enteritidis	GCA 329685.1
B	Typhimurium	GCA 2091315.1	C2	Newport	GCA 2065345.1	D	Enteritidis	GCA 330465.1
B	Typhimurium	GCA 900002725.1	C2	Newport	GCA 2107465.1	D	Enteritidis	GCA 336115.1
B	Typhimurium	GCA 1218285.1	C2	Newport	GCA 2242405.1	D	Enteritidis	GCA 330045.1
B	Typhimurium	GCA 312885.2	C2	Newport	GCA 3079035.1	D	Enteritidis	GCA 329025.1
B	Typhimurium	GCA 1480145.1	C2	Newport	GCA 344845.1	D	Enteritidis	GCA 1271425.1
B	Typhimurium	GCA 2252465.2	C2	Newport	GCA 3120395.1	D	Enteritidis	GCA 330065.1
B	Typhimurium	GCA 784235.1	C2	Newport	GCA 3079215.1	D	Enteritidis	GCA 330185.1
B	Typhimurium	GCA 784245.1	C2	Newport	GCA 1051635.1	D	Enteritidis	GCA 465535.1
B	Typhimurium	GCA 2066815.1	C2	Newport	GCA 1051715.1	D	Enteritidis	GCA 330145.1
B	Typhimurium	GCA 900016625.1	C2	Newport	GCA 272675.1	D	Enteritidis	GCA 2803705.1
B	Typhimurium	GCA 1240475.1	C2	Newport	GCA 483955.1	D	Enteritidis	GCA 330385.1
B	Typhimurium	GCA 2036315.1	C2	Newport	GCA 2106595.1	D	Enteritidis	GCA 414785.2
B	Typhimurium	GCA 2265285.1	C2	Newport	GCA 2242205.1	D	Enteritidis	GCA 1272175.1
B	Typhimurium	GCA 2252365.2	C2	Newport	GCA 3119875.1	D	Enteritidis	GCA 330225.1
B	Typhimurium	GCA 900007385.1	C2	Newport	GCA 1243515.1	D	Enteritidis	GCA 414805.2
B	Typhimurium	GCA 900009535.1	C2	Newport	GCA 483735.1	D	Enteritidis	GCA 330365.1
B	Typhimurium	GCA 1241075.1	C2	Newport	GCA 2056915.1	D	Enteritidis	GCA 414865.2
B	Typhimurium	GCA 2260995.1	C2	Newport	GCA 2242195.1	D	Enteritidis	GCA 414905.2
B	Typhimurium	GCA 648495.2	C2	Newport	GCA 2056745.1	D	Enteritidis	GCA 414885.2
B	Typhimurium	GCA 1223325.1	C2	Newport	GCA 2242305.1	D	Enteritidis	GCA 414845.2
B	Typhimurium	GCA 1243395.1	C2	Newport	GCA 272975.1	D	Enteritidis	GCA 336055.1
B	Typhimurium	GCA 2031525.1	C2	Newport	GCA 272515.1	D	Enteritidis	GCA 414765.2
B	Typhimurium	GCA 784295.1	C2	Newport	GCA 1954765.1	D	Enteritidis	GCA 2037825.1
B	Typhimurium	GCA 1271795.1	C2	Newport	GCA 2242495.1	D	Enteritidis	GCA 414825.2
B	Typhimurium	GCA 2252355.2	C2	Newport	GCA 2056845.1	D	Enteritidis	GCA 414925.2
B	Typhimurium	GCA 1241425.1	C2	Newport	GCA 344885.1	D	Enteritidis	GCA 335855.1
B	Typhimurium	GCA 2265805.1	C2	Newport	GCA 2058035.1	D	Enteritidis	GCA 330325.1
B	Typhimurium	GCA 1480955.1	C2	Newport	GCA 1272275.1	D	Enteritidis	GCA 505105.1
B	Typhimurium	GCA 1588045.1	C2	Newport	GCA 1479995.1	D	Enteritidis	GCA 330165.1
B	Typhimurium	GCA 2283535.1	C2	Newport	GCA 2090655.1	D	Panama	GCA 1448795.1
B	Typhimurium	GCA 1215985.1	C2	Newport	GCA 2090815.1	D	Panama	GCA 2062625.1
B	Typhimurium	GCA 1758445.1	C2	Newport	GCA 2106815.1	D	Panama	GCA 486765.2
B	Typhimurium	GCA 2260985.1	C2	Newport	GCA 2107295.1	D	Itami	GCA 1448495.1
B	Typhimurium	GCA 2300275.2	C2	Newport	GCA 3120135.1	D	Itami	GCA 2064815.1
B	Typhimurium	GCA 1480205.1	C2	Newport	GCA 484215.1	D	Blegdam	GCA 1975265.1
B	Typhimurium	GCA 900003105.1	C2	Newport	GCA 1480655.1	D	Blegdam	GCA 1448595.1
B	Typhimurium	GCA 2723785.1	C2	Newport	GCA 2090915.1	D	Moscow	GCA 1975555.1
B	Typhimurium	GCA 900002705.1	C2	Newport	GCA 2032465.1	D	Moscow	GCA 1448545.1
B	Typhimurium	GCA 900003185.1	C2	Newport	GCA 2090625.1	D	Berta	GCA 1448475.1
B	Typhimurium	GCA 1714645.1	C2	Newport	GCA 2090835.1	D	Berta	GCA 487375.1
B	Typhimurium	GCA 2091285.1	C2	Newport	GCA 2090535.1	D	Berta	GCA 964145.1
B	Typhimurium	GCA 900003345.1	C2	Newport	GCA 2090615.1	D	Berta	GCA 964155.1
B	Typhimurium	GCA 1595065.1	C2	Newport	GCA 2242285.1	D	Berta	GCA 1242065.1
B	Typhimurium	GCA 900007445.1	C2	Newport	GCA 2056755.1	D	Berta	GCA 1479635.1
B	Typhimurium	GCA 1222125.1	C2	Newport	GCA 2064275.1	D	Berta	GCA 1480555.1
B	Typhimurium	GCA 1243505.1	C2	Newport	GCA 483675.1	D	Berta	GCA 2030515.1
B	Typhimurium	GCA 1755885.1	C2	Newport	GCA 2033925.1	D	Berta	GCA 2030615.1
B	Typhimurium	GCA 2065035.1	C2	Newport	GCA 2091155.1	D	Berta	GCA 2030645.1
B	Typhimurium	GCA 3079095.1	C2	Newport	GCA 2090545.1	D	Berta	GCA 2031535.1
B	Typhimurium	GCA 900002975.1	C2	Newport	GCA 2090695.1	D	Berta	GCA 2058795.1
B	Typhimurium	GCA 2018325.1	C2	Newport	GCA 2107155.1	D	Berta	GCA 2061255.1
B	Typhimurium	GCA 1594515.1	C2	Newport	GCA 2056835.1	D	Miami	GCA 2050855.1
B	Typhimurium	GCA 900002985.1	C2	Newport	GCA 344825.1	D	Miami	GCA 486935.1
B	Typhimurium	GCA 1588105.1	C2	Newport	GCA 2090845.1	D	Miami	GCA 2050915.1
B	Typhimurium	GCA 1588165.1	C2	Newport	GCA 2107265.1	D	Miami	GCA 2050945.1
B	Typhimurium	GCA 1594905.1	C2	Newport	GCA 1954845.1	D	Miami	GCA 2050975.1
B	Typhimurium	GCA 2252345.2	C2	Newport	GCA 2090705.1	D	Miami	GCA 2049065.1
B	Typhimurium	GCA 900002635.1	C2	Newport	GCA 2090865.1	D	Eastbourne	GCA 2266205.1
B	Typhimurium	GCA 900002795.1	C2	Newport	GCA 2106275.1	D	Eastbourne	GCA 2046055.1
B	Typhimurium	GCA 900002955.1	C2	Newport	GCA 3078935.1	D	Eastbourne	GCA 2046145.1
B	Typhimurium	GCA 1595345.1	C2	Newport	GCA 1955105.1	D	Eastbourne	GCA 2047975.1
B	Typhimurium	GCA 2261025.1	C2	Newport	GCA 1955135.1	D	Eastbourne	GCA 2048025.1
B	Typhimurium	GCA 900002775.1	C2	Newport	GCA 2057865.1	D	Lomalinda	GCA 2045385.1
B	Typhimurium	GCA 1588285.1	C2	Newport	GCA 2059855.1	D	Lomalinda	GCA 2046525.1
B	Typhimurium	GCA 1587775.1	C2	Newport	GCA 1955165.1	D	Lomalinda	GCA 2045405.1
B	Typhimurium	GCA 1588155.1	C2	Newport	GCA 2107375.1	D	Lomalinda	GCA 2046245.1

B	Typhimurium	GCA 1481175.1	C2	Newport	GCA 3120255.1	D	Lomalinda	GCA 2046275.1
B	Typhimurium	GCA 2033135.1	C2	Newport	GCA 344865.1	D	Lomalinda	GCA 2048075.1
B	Typhimurium	GCA 1588215.1	C2	Newport	GCA 1955075.1	D	Hillingdon	GCA 1975385.1
B	Typhimurium	GCA 1594505.1	C2	Newport	GCA 2061655.1	D	Hillingdon	GCA 1448725.1
B	Typhimurium	GCA 2063655.1	C2	Newport	GCA 1955065.1	D	Ouakam	GCA 2211565.1
B	Typhimurium	GCA 900007195.1	C2	Newport	GCA 2843885.1	D	Ouakam	GCA 1077835.1
B	Typhimurium	GCA 1587845.1	C2	Newport	GCA 484455.1	D	Macclesfield	GCA 2211585.1
B	Typhimurium	GCA 1588455.1	C2	Newport	GCA 2090875.1	D	India	GCA 2208195.1
B	Typhimurium	GCA 900006185.1	C2	Newport	GCA 1955035.1	D	Ekotedo	GCA 2265975.1
B	Typhimurium	GCA 1588495.1	C2	Newport	GCA 2091175.1	D	Ekotedo	GCA 2266095.1
B	Typhimurium	GCA 1271745.1	C2	Newport	GCA 3199615.1	D	Baildon	GCA 2045255.1
B	Typhimurium	GCA 2723705.1	C2	Newport	GCA 2057935.1	D	Baildon	GCA 2045245.1
B	Typhimurium	GCA 2252605.2	C2	Newport	GCA 3120355.1	D	Baildon	GCA 2046495.1
B	Typhimurium	GCA 1587965.1	C2	Newport	GCA 2090765.1	D	Baildon	GCA 2046425.1
B	Typhimurium	GCA 2260565.1	C2	Newport	GCA 1954815.1	D	Baildon	GCA 2046175.1
B	Typhimurium	GCA 1587855.1	C2	Newport	GCA 1954835.1	D	Baildon	GCA 2047945.1
B	Typhimurium	GCA 1587945.1	C2	Newport	GCA 2059255.1	D	Baildon	GCA 2105895.1
B	Typhimurium	GCA 2631105.1	C2	Newport	GCA 2090555.1	D	Typhi	GCA 195995.1
B	Typhimurium	GCA 1587915.1	C2	Newport	GCA 3118635.1	D	Typhi	GCA 7545.1
B	Typhimurium	GCA 1588015.1	C2	Newport	GCA 2090665.1	E	Weltevreden	GCA 1410255.1
B	Typhimurium	GCA 1588315.1	C2	Newport	GCA 3200345.1	E	Weltevreden	GCA 1409695.1
B	Typhimurium	GCA 1588195.1	C2	Newport	GCA 1955145.1	E	Weltevreden	GCA 1410735.1
B	Typhimurium	GCA 1595075.1	C2	Newport	GCA 2242225.1	E	Weltevreden	GCA 1411095.1
B	Typhimurium	GCA 1214785.1	C2	Newport	GCA 484475.1	E	Weltevreden	GCA 1409235.1
B	4,[5],12:i:-	GCA 430165.1	C2	Newport	GCA 2060195.1	E	Weltevreden	GCA 1410055.1
B	4,[5],12:i:-	GCA 3074555.1	C2	Newport	GCA 3118695.1	E	Weltevreden	GCA 1410975.1
B	4,[5],12:i:-	GCA 3074635.1	C2	Newport	GCA 1955055.1	E	Weltevreden	GCA 1409255.1
B	4,[5],12:i:-	GCA 3074575.1	C2	Newport	GCA 1051795.1	E	Weltevreden	GCA 1409575.1
B	4,[5],12:i:-	GCA 2066795.1	C2	Newport	GCA 1051815.1	E	Weltevreden	GCA 1409895.1
B	4,[5],12:i:-	GCA 2106195.1	C2	Newport	GCA 2058635.1	E	Weltevreden	GCA 1410675.1
B	4,[5],12:i:-	GCA 2034915.1	C2	Newport	GCA 2106215.1	E	Weltevreden	GCA 1411335.1
B	4,[5],12:i:-	GCA 335915.1	C2	Newport	GCA 1954825.1	E	Weltevreden	GCA 1409655.1
B	4,[5],12:i:-	GCA 2034975.1	C2	Newport	GCA 1051535.1	E	Weltevreden	GCA 1409315.1
B	4,[5],12:i:-	GCA 3065135.1	C2	Newport	GCA 1051765.1	E	Weltevreden	GCA 1409595.1
B	4,[5],12:i:-	GCA 335935.1	C2	Newport	GCA 2109205.1	E	Weltevreden	GCA 1410275.1
B	4,[5],12:i:-	GCA 3065205.1	C2	Newport	GCA 483755.1	E	Weltevreden	GCA 1409475.1
B	4,[5],12:i:-	GCA 3066895.1	C2	Newport	GCA 2109245.1	E	Weltevreden	GCA 1410535.1
B	4,[5],12:i:-	GCA 3065225.1	C2	Newport	GCA 3199545.1	E	Weltevreden	GCA 1411015.1
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B	4,[5],12:i:-	GCA 3067205.1	C2	Newport	GCA 2109075.1	E	Weltevreden	GCA 1410235.1
B	4,[5],12:i:-	GCA 3065305.1	C2	Newport	GCA 1954755.1	E	Weltevreden	GCA 1410335.1
B	4,[5],12:i:-	GCA 3065235.1	C2	Newport	GCA 2109285.1	E	Weltevreden	GCA 1411255.1
B	4,[5],12:i:-	GCA 974005.1	C2	Newport	GCA 494485.1	E	Weltevreden	GCA 1409555.1
B	4,[5],12:i:-	GCA 3065815.1	C2	Newport	GCA 2057085.1	E	Weltevreden	GCA 1410575.1
B	4,[5],12:i:-	GCA 3067365.1	C2	Newport	GCA 3076975.1	E	Weltevreden	GCA 1410595.1
B	4,[5],12:i:-	GCA 2034965.1	C2	Newport	GCA 3199565.1	E	Weltevreden	GCA 1410695.1
B	4,[5],12:i:-	GCA 3067255.1	C2	Newport	GCA 3201015.1	E	Weltevreden	GCA 1410875.1
B	4,[5],12:i:-	GCA 973815.1	C2	Newport	GCA 2109185.1	E	Weltevreden	GCA 1409375.1
B	4,[5],12:i:-	GCA 3066865.1	C2	Newport	GCA 1051525.1	E	Weltevreden	GCA 1409915.1
B	4,[5],12:i:-	GCA 3066885.1	C2	Newport	GCA 3120435.1	E	Weltevreden	GCA 1410075.1
B	4,[5],12:i:-	GCA 3066945.1	C2	Newport	GCA 2108925.1	E	Weltevreden	GCA 1409675.1
B	4,[5],12:i:-	GCA 3065265.1	C2	Newport	GCA 1051845.1	E	Weltevreden	GCA 1409835.1
B	4,[5],12:i:-	GCA 3065125.1	C2	Newport	GCA 1448965.1	E	Weltevreden	GCA 1409935.1
B	4,[5],12:i:-	GCA 1480975.1	C2	Newport	GCA 3200975.1	E	Weltevreden	GCA 1410175.1
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B	4,[5],12:i:-	GCA 3067425.1	C2	Newport	GCA 1051545.1	E	Weltevreden	GCA 1409175.1
B	4,[5],12:i:-	GCA 3065625.1	C2	Newport	GCA 2109145.1	E	Weltevreden	GCA 1409195.1
B	4,[5],12:i:-	GCA 3065325.1	C2	Kentucky	GCA 1448485.2	E	Weltevreden	GCA 1612515.1
B	4,[5],12:i:-	GCA 2992165.1	C2	Kentucky	GCA 170195.2	E	Weltevreden	GCA 1410195.1
B	4,[5],12:i:-	GCA 3065555.1	C2	Kentucky	GCA 2065505.1	E	Weltevreden	GCA 1411395.1
B	4,[5],12:i:-	GCA 170255.1	C2	Kentucky	GCA 2064625.1	E	Weltevreden	GCA 1410135.1
B	4,[5],12:i:-	GCA 3065185.1	C2	Kentucky	GCA 171275.1	E	Weltevreden	GCA 1410355.1
B	4,[5],12:i:-	GCA 3067345.1	C2	Kentucky	GCA 2031045.1	E	Weltevreden	GCA 1410655.1
B	4,[5],12:i:-	GCA 3065725.1	C2	Kentucky	GCA 1457355.1	E	Weltevreden	GCA 1410855.1
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B	4,[5],12:i:-	GCA 3065515.1	C2	Kentucky	GCA 2065535.1	E	Weltevreden	GCA 1410615.1
B	4,[5],12:i:-	GCA 3067295.1	C2	Kentucky	GCA 2049015.1	E	Weltevreden	GCA 1411435.1
B	4,[5],12:i:-	GCA 3065765.1	C2	Kentucky	GCA 1247055.1	E	Weltevreden	GCA 2999895.1
B	4,[5],12:i:-	GCA 3065735.1	C2	Kentucky	GCA 1246115.1	E	Weltevreden	GCA 1409995.1
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B	4,[5],12:i:-	GCA 3065455.1	C2	Kentucky	GCA 1246195.1	E	Weltevreden	GCA 3000295.1
B	4,[5],12:i:-	GCA 3065645.1	C2	Kentucky	GCA 1247535.1	E	Weltevreden	GCA 1409955.1
B	4,[5],12:i:-	GCA 3067245.1	C2	Kentucky	GCA 1247545.1	E	Weltevreden	GCA 3000505.1
B	4,[5],12:i:-	GCA 3065505.1	C2	Kentucky	GCA 1245565.1	E	Weltevreden	GCA 1410895.1
B	4,[5],12:i:-	GCA 3065545.1	C2	Kentucky	GCA 2064595.1	E	Weltevreden	GCA 1410095.1
B	4,[5],12:i:-	GCA 3065585.1	C2	Kentucky	GCA 2050525.1	E	Weltevreden	GCA 1411315.1
B	4,[5],12:i:-	GCA 3065275.1	C2	Kentucky	GCA 2064615.1	E	Weltevreden	GCA 3000235.1
B	4,[5],12:i:-	GCA 3067215.1	C2	Kentucky	GCA 1241025.1	E	Weltevreden	GCA 3000255.1
B	4,[5],12:i:-	GCA 3065685.1	C2	Kentucky	GCA 1247465.1	E	Weltevreden	GCA 2999805.1
B	4,[5],12:i:-	GCA 3065665.1	C2	Kentucky	GCA 1481015.1	E	Weltevreden	GCA 1410315.1
B	4,[5],12:i:-	GCA 3067285.1	C2	Kentucky	GCA 2030185.1	E	Weltevreden	GCA 1410835.1
B	4,[5],12:i:-	GCA 3067385.1	C2	Kentucky	GCA 2031345.1	E	Weltevreden	GCA 2999745.1
B	4,[5],12:i:-	GCA 3066925.1	C2	Kentucky	GCA 2062995.1	E	Weltevreden	GCA 3000425.1
B	4,[5],12:i:-	GCA 3065845.1	C2	Kentucky	GCA 1479905.1	E	Weltevreden	GCA 1409715.1
B	4,[5],12:i:-	GCA 3067325.1	C2	Kentucky	GCA 1246665.1	E	Weltevreden	GCA 1409775.1
B	4,[5],12:i:-	GCA 2032235.1	C2	Kentucky	GCA 1247085.1	E	Weltevreden	GCA 1410755.1
B	4,[5],12:i:-	GCA 1479815.1	C2	Kentucky	GCA 2283025.1	E	Weltevreden	GCA 1410995.1
B	4,[5],12:i:-	GCA 3065785.1	C2	Kentucky	GCA 973755.1	E	Weltevreden	GCA 2999845.1
B	4,[5],12:i:-	GCA 3065805.1	C2	Kentucky	GCA 1240725.1	E	Weltevreden	GCA 3000575.1
B	4,[5],12:i:-	GCA 3066845.1	C2	Kentucky	GCA 2030465.1	E	Weltevreden	GCA 2999735.1
B	4,12:i:-	GCA 1240385.1	C2	Kentucky	GCA 1479685.1	E	Weltevreden	GCA 3000285.1
B	4,12:i:-	GCA 1244815.1	C2	Kentucky	GCA 1478715.1	E	Weltevreden	GCA 1409975.1
B	4,12:i:-	GCA 1246615.1	C2	Kentucky	GCA 1478825.1	E	Weltevreden	GCA 1410295.1
B	4,12:i:-	GCA 1247365.1	C2	Kentucky	GCA 1890825.1	E	Weltevreden	GCA 1410375.1
B	4,12:i:-	GCA 1271395.1	C2	Kentucky	GCA 2050605.1	E	Weltevreden	GCA 1410795.1
B	4,12:i:-	GCA 1271935.1	C2	Kentucky	GCA 2952975.1	E	Weltevreden	GCA 1411235.1
B	4,12:i:-	GCA 3140475.1	C2	Kentucky	GCA 3076995.1	E	Weltevreden	GCA 2999695.1
B	4,5,12:i-	GCA 1245255.1	C2	Kentucky	GCA 2885745.1	E	Weltevreden	GCA 2999795.1
B	4,5,12:i-	GCA 1245735.1	C2	Kentucky	GCA 3121055.1	E	Weltevreden	GCA 3000555.1
B	4,5,12:i-	GCA 1245765.1	C2	Kentucky	GCA 2879815.1	E	Weltevreden	GCA 1409855.1
B	4,5,12:i-	GCA 1245865.1	C2	Kentucky	GCA 1890855.1	E	Weltevreden	GCA 1410215.1
B	4,5,12:i-	GCA 1246945.1	C2	Kentucky	GCA 1480805.1	E	Weltevreden	GCA 1410435.1
B	4,12:d:-	GCA 2032385.1	C2	Kentucky	GCA 1245665.1	E	Weltevreden	GCA 2999935.1
B	4,12:d:-	GCA 2030235.1	C2	Kentucky	GCA 1480045.1	E	Weltevreden	GCA 2999975.1
B	4,12:d:-	GCA 2032195.1	C2	Kentucky	GCA 2036325.1	E	Weltevreden	GCA 3000125.1
B	4,[5],12:r:-	GCA 2032095.1	C2	Kentucky	GCA 1479755.1	E	Weltevreden	GCA 3000155.1
B	4,[5],12:r:-	GCA 2037435.1	C2	Kentucky	GCA 2033015.1	E	Weltevreden	GCA 1409415.1
B	4,[5],12:r:-	GCA 2032395.1	C2	Kentucky	GCA 1243655.1	E	Weltevreden	GCA 1411355.1
B	4,[5],12:r:-	GCA 2033205.1	C2	Kentucky	GCA 1238265.1	E	Weltevreden	GCA 2999705.1
B	4,12:r:-	GCA 2037385.1	C2	Kentucky	GCA 2036235.1	E	Weltevreden	GCA 2999955.1
B	4,12:r:-	GCA 2037465.1	C2	Kentucky	GCA 1272405.1	E	Weltevreden	GCA 3000115.1
B	Copenhagen	GCA 2036765.1	C2	Kentucky	GCA 1238375.1	E	Weltevreden	GCA 3000415.1
B	Copenhagen	GCA 2060305.1	C2	Kentucky	GCA 1243915.1	E	Weltevreden	GCA 3000455.1
B	Copenhagen	GCA 2061625.1	C2	Kentucky	GCA 1480755.1	E	Weltevreden	GCA 1409275.1
B	Copenhagen	GCA 2105815.1	C2	Kentucky	GCA 1480405.1	E	Weltevreden	GCA 1410715.1
B	Copenhagen	GCA 3118935.1	C2	Kentucky	GCA 1480695.1	E	Weltevreden	GCA 1411035.1
B	Copenhagen	GCA 3077015.1	C2	Kentucky	GCA 1890845.1	E	Weltevreden	GCA 1411075.1
B	Heidelberg	GCA 1682115.1	C2	Kentucky	GCA 2031305.1	E	Weltevreden	GCA 2999835.1
B	Heidelberg	GCA 1952405.1	C2	Kentucky	GCA 474455.1	E	Weltevreden	GCA 3000215.1
B	Heidelberg	GCA 1246855.1	C2	Kentucky	GCA 1240135.1	E	Weltevreden	GCA 3000475.1
B	Heidelberg	GCA 1952325.1	C2	Kentucky	GCA 1243955.1	E	Weltevreden	GCA 3000195.1
B	Heidelberg	GCA 1723795.1	C2	Kentucky	GCA 1479725.1	E	Weltevreden	GCA 3000275.1
B	Heidelberg	GCA 962525.1	C2	Kentucky	GCA 474315.1	E	Weltevreden	GCA 3000335.1
B	Heidelberg	GCA 293965.1	C2	Kentucky	GCA 474295.1	E	Weltevreden	GCA 3000375.1
B	Heidelberg	GCA 962075.1	C2	Kentucky	GCA 1241395.1	E	Weltevreden	GCA 1409295.1
B	Heidelberg	GCA 962685.1	C2	Kentucky	GCA 1245465.1	E	Weltevreden	GCA 1410035.1
B	Heidelberg	GCA 1242965.1	C2	Kentucky	GCA 1480595.1	E	Weltevreden	GCA 1411135.1
B	Heidelberg	GCA 1245435.1	C2	Kentucky	GCA 1242995.1	E	Weltevreden	GCA 3000075.1
B	Heidelberg	GCA 171315.1	C2	Kentucky	GCA 484035.1	E	Weltevreden	GCA 1409435.1
B	Heidelberg	GCA 1240155.1	C2	Kentucky	GCA 1271875.1	E	Weltevreden	GCA 3000025.1
B	Heidelberg	GCA 1246965.1	C2	Kentucky	GCA 1246255.1	E	Weltevreden	GCA 1409335.1
B	Heidelberg	GCA 20705.1	C2	Kentucky	GCA 1244005.1	E	Weltevreden	GCA 1409395.1
B	Heidelberg	GCA 258365.1	C2	Kentucky	GCA 1244715.1	E	Weltevreden	GCA 1410775.1
B	Heidelberg	GCA 430085.2	C2	Kentucky	GCA 1240565.1	E	Weltevreden	GCA 2999945.1
B	Heidelberg	GCA 430105.1	C2	Kentucky	GCA 2265705.1	E	Weltevreden	GCA 3000165.1
B	Heidelberg	GCA 486045.2	C2	Kentucky	GCA 1243995.1	E	Weltevreden	GCA 3000495.1
B	Heidelberg	GCA 505705.1	C2	Kentucky	GCA 1245105.1	E	Weltevreden	GCA 1409635.1
B	Heidelberg	GCA 1441205.1	C2	Kentucky	GCA 1245955.1	E	Weltevreden	GCA 1410935.1
B	Heidelberg	GCA 1441225.1	C2	Kentucky	GCA 2803695.1	E	Weltevreden	GCA 1411195.1
B	Heidelberg	GCA 1441245.1	C2	Kentucky	GCA 1542215.1	E	Weltevreden	GCA 1411215.1
B	Heidelberg	GCA 1689935.1	C2	Kentucky	GCA 1240465.1	E	Weltevreden	GCA 1409875.1

B	Heidelberg	GCA 1690005.1	C2	Kentucky	GCA 1244185.1	E	Weltevreden	GCA 3000515.1
B	Heidelberg	GCA 1690035.1	C2	Kentucky	GCA 1244155.1	E	Weltevreden	GCA 1409355.1
B	Heidelberg	GCA 1690055.1	C2	Kentucky	GCA 1480715.1	E	Weltevreden	GCA 1409755.1
B	Heidelberg	GCA 1690075.1	C2	Kentucky	GCA 474415.1	E	Weltevreden	GCA 1410475.1
B	Heidelberg	GCA 1690095.1	C2	Kentucky	GCA 487075.1	E	Weltevreden	GCA 1410515.1
B	Heidelberg	GCA 1690115.1	C2	Kentucky	GCA 1478475.1	E	Weltevreden	GCA 1411055.1
B	Heidelberg	GCA 1690135.1	C2	Kentucky	GCA 1243485.1	E	Weltevreden	GCA 3000015.1
B	Heidelberg	GCA 1692495.1	C2	Kentucky	GCA 336135.1	E	Weltevreden	GCA 3000055.1
B	Heidelberg	GCA 1692515.1	C2	Kentucky	GCA 1478105.1	E	Weltevreden	GCA 3000385.1
B	Heidelberg	GCA 1692535.1	C2	Kentucky	GCA 1479425.1	E	Weltevreden	GCA 1409615.1
B	Heidelberg	GCA 1692555.1	C2	Kentucky	GCA 1480925.1	E	Weltevreden	GCA 1410495.1
B	Heidelberg	GCA 1692575.1	C2	Kentucky	GCA 1240425.1	E	Weltevreden	GCA 1410635.1
B	Heidelberg	GCA 1692595.1	C2	Kentucky	GCA 1242015.1	E	Weltevreden	GCA 1409795.1
B	Heidelberg	GCA 1692615.1	C2	Kentucky	GCA 1542125.1	E	Weltevreden	GCA 1410395.1
B	Heidelberg	GCA 1692635.1	C2	Kentucky	GCA 1242495.1	E	Weltevreden	GCA 1410415.1
B	Heidelberg	GCA 1692655.1	C2	Kentucky	GCA 1480865.1	E	Weltevreden	GCA 1410455.1
B	Heidelberg	GCA 1272055.1	C2	Kentucky	GCA 1479615.1	E	Weltevreden	GCA 1411115.1
B	Heidelberg	GCA 2926735.1	C2	Kentucky	GCA 1238285.1	E	Weltevreden	GCA 3000355.1
B	Heidelberg	GCA 974165.1	C2	Kentucky	GCA 1479745.1	E	Weltevreden	GCA 1409495.1
B	Heidelberg	GCA 2563315.1	C2	Kentucky	GCA 2030345.1	E	Weltevreden	GCA 171495.1
B	Heidelberg	GCA 1246095.1	C2	Kentucky	GCA 2050645.1	E	Weltevreden	GCA 1410115.1
B	Heidelberg	GCA 2264885.1	C2	Kentucky	GCA 1242405.1	E	Weltevreden	GCA 1410155.1
B	Heidelberg	GCA 2926575.1	C2	Kentucky	GCA 2031615.1	E	Weltevreden	GCA 3000085.1
B	Heidelberg	GCA 2926795.1	C2	Kentucky	GCA 2031145.1	E	Weltevreden	GCA 1409455.1
B	Heidelberg	GCA 1246915.1	C2	Kentucky	GCA 2031485.1	E	Weltevreden	GCA 1410915.1
B	Heidelberg	GCA 1247145.1	C2	Kentucky	GCA 1242285.1	E	Weltevreden	GCA 1411375.1
B	Heidelberg	GCA 2926775.1	C2	Kentucky	GCA 2031745.1	E	Weltevreden	GCA 2999885.1
B	Heidelberg	GCA 2926935.1	C2	Kentucky	GCA 474435.1	E	Weltevreden	GCA 1411455.1
B	Heidelberg	GCA 1242885.1	C2	Kentucky	GCA 1542095.1	E	Weltevreden	GCA 1411175.1
B	Heidelberg	GCA 2926595.1	C2	Kentucky	GCA 3120095.1	E	Weltevreden	GCA 1411295.1
B	Heidelberg	GCA 2926835.1	C2	Kentucky	GCA 1245195.1	E	Weltevreden	GCA 1411275.1
B	Heidelberg	GCA 2061515.1	C2	Kentucky	GCA 1245135.1	E	Weltevreden	GCA 1409535.1
B	Heidelberg	GCA 974175.1	C2	Kentucky	GCA 2803685.1	E	Weltevreden	GCA 1409735.1
B	Heidelberg	GCA 293945.1	C2	Bovismorbificans	GCA 499465.2	E	Weltevreden	GCA 1411155.1
B	Heidelberg	GCA 1240885.1	C2	Bovismorbificans	GCA 2060635.1	E	Weltevreden	GCA 1409515.1
B	Heidelberg	GCA 1241155.1	C2	Bovismorbificans	GCA 2060495.1	E	Weltevreden	GCA 1410555.1
B	Heidelberg	GCA 2036185.1	C2	Bovismorbificans	GCA 2060605.1	E	Weltevreden	GCA 1410955.1
B	Heidelberg	GCA 2064935.1	C2	Bovismorbificans	GCA 2049045.1	E	Weltevreden	GCA 1410015.1
B	Heidelberg	GCA 2926475.1	C2	Bovismorbificans	GCA 2060595.1	E	Weltevreden	GCA 2049345.1
B	Heidelberg	GCA 1952475.1	C2	Bovismorbificans	GCA 1126625.1	E	Weltevreden	GCA 2050835.1
B	Heidelberg	GCA 1240545.1	C2	Bovismorbificans	GCA 1174905.1	E	Weltevreden	GCA 2062735.1
B	Heidelberg	GCA 1242755.1	C2	Bovismorbificans	GCA 1321645.1	E	Weltevreden	GCA 2050595.1
B	Heidelberg	GCA 1245845.1	C2	Bovismorbificans	GCA 2061715.1	E	Weltevreden	GCA 2050715.1
B	Heidelberg	GCA 2926615.1	C2	Bovismorbificans	GCA 2061735.1	E	Weltevreden	GCA 1410815.1
B	Heidelberg	GCA 700765.1	C2	Bovismorbificans	GCA 2060515.1	E	Anatum	GCA 1726095.1
B	Heidelberg	GCA 699605.1	C2	Bovismorbificans	GCA 1087425.1	E	Anatum	GCA 1247355.1
B	Heidelberg	GCA 293925.1	C2	Bovismorbificans	GCA 2061695.1	E	Anatum	GCA 1835345.1
B	Heidelberg	GCA 1477675.1	C2	Bovismorbificans	GCA 1083855.1	E	Anatum	GCA 412875.1
B	Heidelberg	GCA 962655.1	C2	Bovismorbificans	GCA 2061775.1	E	Anatum	GCA 1241205.1
B	Heidelberg	GCA 2926375.1	C2	Bovismorbificans	GCA 2060575.1	E	Anatum	GCA 1481105.1
B	Heidelberg	GCA 256625.1	C2	Bovismorbificans	GCA 1111645.1	E	Anatum	GCA 2060035.1
B	Heidelberg	GCA 603545.1	C2	Bovismorbificans	GCA 2050935.1	E	Anatum	GCA 2066255.1
B	Heidelberg	GCA 961995.1	C2	Bovismorbificans	GCA 1123425.1	E	Anatum	GCA 2066235.1
B	Heidelberg	GCA 1242865.1	C2	Bovismorbificans	GCA 1174385.1	E	Anatum	GCA 1478355.1
B	Heidelberg	GCA 2264985.1	C2	Bovismorbificans	GCA 1172165.1	E	Anatum	GCA 1479145.1
B	Heidelberg	GCA 974205.1	C2	Bovismorbificans	GCA 1155245.1	E	Anatum	GCA 2061315.1
B	Heidelberg	GCA 962085.1	C2	Bovismorbificans	GCA 1213485.1	E	Anatum	GCA 2032815.1
B	Heidelberg	GCA 1241275.1	C2	Bovismorbificans	GCA 1159165.1	E	Anatum	GCA 2059595.1
B	Heidelberg	GCA 1243065.1	C2	Bovismorbificans	GCA 1213345.1	E	Anatum	GCA 2059305.1
B	Heidelberg	GCA 1243875.1	C2	Bovismorbificans	GCA 2050735.1	E	Anatum	GCA 2058525.1
B	Heidelberg	GCA 486085.1	C2	Bovismorbificans	GCA 524965.2	E	Anatum	GCA 2060115.1
B	Heidelberg	GCA 603325.1	C2	Bovismorbificans	GCA 2062655.1	E	Anatum	GCA 487575.2
B	Heidelberg	GCA 2926655.1	C2	Bovismorbificans	GCA 524785.1	E	Anatum	GCA 940895.2
B	Heidelberg	GCA 1241845.1	C2	Bovismorbificans	GCA 524845.1	E	Anatum	GCA 963535.2
B	Heidelberg	GCA 2926715.1	C2	Bovismorbificans	GCA 524945.1	E	Anatum	GCA 988525.3
B	Heidelberg	GCA 962625.1	C2	Bovismorbificans	GCA 524865.1	E	Anatum	GCA 1447095.1
B	Heidelberg	GCA 603305.1	C2	Bovismorbificans	GCA 524725.1	E	Anatum	GCA 1447115.1
B	Heidelberg	GCA 1241305.1	C2	Bovismorbificans	GCA 1213645.1	E	Anatum	GCA 1620115.1
B	Heidelberg	GCA 1479435.1	C2	Bovismorbificans	GCA 1172045.1	E	Anatum	GCA 1620135.2
B	Heidelberg	GCA 2926495.1	C2	Bovismorbificans	GCA 1114865.1	E	Anatum	GCA 1620155.1
B	Heidelberg	GCA 1952565.1	C2	Bovismorbificans	GCA 524415.1	E	Anatum	GCA 1620205.2

B	Heidelberg	GCA 1247585.1	C2	Bovismorbificans	GCA 524925.1	E	Anatum	GCA 1620225.1
B	Heidelberg	GCA 2037295.1	C2	Bovismorbificans	GCA 524705.1	E	Anatum	GCA 1623545.2
B	Heidelberg	GCA 2926515.1	C2	Bovismorbificans	GCA 524765.1	E	Anatum	GCA 1623585.1
B	Heidelberg	GCA 1244225.1	C2	Bovismorbificans	GCA 3079135.1	E	Anatum	GCA 1623625.1
B	Heidelberg	GCA 1478705.1	C2	Bovismorbificans	GCA 1215185.1	E	Anatum	GCA 1623665.2
B	Heidelberg	GCA 1478965.1	C2	Bovismorbificans	GCA 524745.1	E	Anatum	GCA 3119765.1
B	Heidelberg	GCA 2032425.1	C2	Bovismorbificans	GCA 524805.1	E	Anatum	GCA 3077075.1
B	Heidelberg	GCA 2926435.1	C2	Bovismorbificans	GCA 524905.1	E	Anatum	GCA 3118955.1
B	Heidelberg	GCA 2926555.1	C2	Bovismorbificans	GCA 1126725.1	E	Anatum	GCA 3119975.1
B	Heidelberg	GCA 2926645.1	C2	Bovismorbificans	GCA 524825.1	E	Anatum	GCA 3118175.1
B	Heidelberg	GCA 2926895.1	C2	Hadar	GCA 1448685.1	E	Anatum	GCA 3120795.1
B	Heidelberg	GCA 1242675.1	C2	Hadar	GCA 2065715.1	E	Anatum	GCA 3078395.1
B	Heidelberg	GCA 2926845.1	C2	Hadar	GCA 974135.1	E	Anatum	GCA 3119715.1
B	Heidelberg	GCA 1241455.1	C2	Hadar	GCA 2266305.1	E	Anatum	GCA 3119565.1
B	Heidelberg	GCA 1243585.1	C2	Hadar	GCA 171515.1	E	Anatum	GCA 3078135.1
B	Heidelberg	GCA 1479485.1	C2	Hadar	GCA 1246485.1	E	Anatum	GCA 3117515.1
B	Heidelberg	GCA 1479665.1	C2	Hadar	GCA 1246495.1	E	Anatum	GCA 3120015.1
B	Heidelberg	GCA 2037505.1	C2	Hadar	GCA 2032945.1	E	Anatum	GCA 3118155.1
B	Heidelberg	GCA 293905.1	C2	Hadar	GCA 2065635.1	E	Anatum	GCA 3120555.1
B	Heidelberg	GCA 603285.1	C2	Hadar	GCA 293095.1	E	Anatum	GCA 3077155.1
B	Heidelberg	GCA 2926395.1	C2	Hadar	GCA 1245555.1	E	Anatum	GCA 3120115.1
B	Heidelberg	GCA 2926695.1	C2	Hadar	GCA 1246435.1	E	Anatum	GCA 3077095.1
B	Heidelberg	GCA 700785.1	C2	Hadar	GCA 1479865.1	E	Anatum	GCA 3118315.1
B	Heidelberg	GCA 1241725.1	C2	Hadar	GCA 1241115.1	E	Anatum	GCA 3119555.1
B	Heidelberg	GCA 2926745.1	C2	Hadar	GCA 1246475.1	E	Anatum	GCA 3117575.1
B	Heidelberg	GCA 2037355.1	C2	Hadar	GCA 973745.1	E	Anatum	GCA 3120975.1
B	Heidelberg	GCA 1241625.1	C2	Hadar	GCA 2031055.1	E	Anatum	GCA 3117635.1
B	Heidelberg	GCA 2926295.1	C2	Hadar	GCA 2035955.1	E	Anatum	GCA 3117165.1
B	Heidelberg	GCA 2926455.1	C2	Hadar	GCA 1480605.1	E	Anatum	GCA 3120275.1
B	Heidelberg	GCA 962025.1	C2	Hadar	GCA 973775.1	E	Anatum	GCA 3077055.1
B	Heidelberg	GCA 962555.1	C2	Hadar	GCA 1241055.1	E	Anatum	GCA 3119295.1
B	Heidelberg	GCA 1480445.1	C2	Hadar	GCA 1246355.1	E	Anatum	GCA 3077175.1
B	Heidelberg	GCA 1246035.1	C2	Hadar	GCA 1246765.1	E	Anatum	GCA 3077275.1
B	Heidelberg	GCA 284755.1	C2	Hadar	GCA 2030665.1	E	Anatum	GCA 3117215.1
B	Heidelberg	GCA 962485.1	C2	Hadar	GCA 487175.1	E	Anatum	GCA 3117735.1
B	Heidelberg	GCA 1271555.1	C2	Hadar	GCA 1242005.1	E	Anatum	GCA 3117015.1
B	Heidelberg	GCA 1480665.1	C2	Hadar	GCA 1477965.1	E	Anatum	GCA 3121215.1
B	Heidelberg	GCA 2036305.1	C2	Hadar	GCA 2031825.1	E	Anatum	GCA 3117065.1
B	Heidelberg	GCA 603585.1	C2	Hadar	GCA 1243355.1	E	Anatum	GCA 3121075.1
B	Heidelberg	GCA 1479265.1	C2	Hadar	GCA 1243705.1	E	Anatum	GCA 3120995.1
B	Heidelberg	GCA 2926355.1	C2	Hadar	GCA 412915.1	E	Muenster	GCA 2034315.1
B	Heidelberg	GCA 1478945.1	C2	Hadar	GCA 1242445.1	E	Muenster	GCA 2050875.1
B	Heidelberg	GCA 603605.1	C2	Hadar	GCA 1243605.1	E	Muenster	GCA 2062165.1
B	Heidelberg	GCA 1240635.1	C2	Hadar	GCA 1479565.1	E	Muenster	GCA 2050495.1
B	Heidelberg	GCA 2926635.1	C2	Hadar	GCA 1477755.1	E	Muenster	GCA 1246125.1
B	Heidelberg	GCA 962725.1	C2	Hadar	GCA 1477835.1	E	Muenster	GCA 487015.1
B	Heidelberg	GCA 603785.1	C2	Hadar	GCA 1478535.1	E	Muenster	GCA 2050685.1
B	Heidelberg	GCA 699625.1	C2	Hadar	GCA 1479605.1	E	Muenster	GCA 2064315.1
B	Heidelberg	GCA 1272375.1	C2	Hadar	GCA 2283205.1	E	Muenster	GCA 2050585.1
B	Heidelberg	GCA 2037425.1	C2	Hadar	GCA 2058685.1	E	Muenster	GCA 2062055.1
B	Heidelberg	GCA 2926875.1	C2	Hadar	GCA 1245215.1	E	Muenster	GCA 1477695.1
B	Heidelberg	GCA 486065.1	C2	Muenchen	GCA 1692085.1	E	Muenster	GCA 2062205.1
B	Heidelberg	GCA 1241105.1	C2	Muenchen	GCA 2034335.1	E	Muenster	GCA 483855.1
B	Heidelberg	GCA 1479585.1	C2	Muenchen	GCA 1834175.1	E	Muenster	GCA 2065425.1
B	Heidelberg	GCA 603685.1	C2	Muenchen	GCA 2943795.1	E	Muenster	GCA 487035.2
B	Heidelberg	GCA 1245965.1	C2	Muenchen	GCA 1692005.1	E	Muenster	GCA 505485.1
B	Heidelberg	GCA 1478185.1	C2	Muenchen	GCA 1834055.1	E	Muenster	GCA 1246125.1
B	Heidelberg	GCA 1240145.1	C2	Muenchen	GCA 1834085.1	E	Muenster	GCA 1477695.1
B	Heidelberg	GCA 2926905.1	C2	Muenchen	GCA 1834365.1	E	Muenster	GCA 2034315.1
B	Heidelberg	GCA 603505.1	C2	Muenchen	GCA 1834575.1	E	Muenster	GCA 2050495.1
B	Heidelberg	GCA 2062495.1	C2	Muenchen	GCA 486325.1	E	Muenster	GCA 2050685.1
B	Heidelberg	GCA 2260805.1	C2	Muenchen	GCA 1242505.1	E	Muenster	GCA 2050875.1
B	Heidelberg	GCA 2926275.1	C2	Muenchen	GCA 1243235.1	E	Muenster	GCA 2062055.1
B	Heidelberg	GCA 603365.1	C2	Muenchen	GCA 1834045.1	E	Muenster	GCA 2062165.1
B	Heidelberg	GCA 2926535.1	C2	Muenchen	GCA 2064365.1	E	Muenster	GCA 3072675.1
B	Heidelberg	GCA 1241355.1	C2	Muenchen	GCA 1245945.1	E	Muenster	GCA 3072725.1
B	Heidelberg	GCA 2265745.1	C2	Muenchen	GCA 1878985.1	E	Muenster	GCA 3072765.1
B	Heidelberg	GCA 962605.1	C2	Muenchen	GCA 3118915.1	E	Muenster	GCA 3072805.1
B	Heidelberg	GCA 2926815.1	C2	Muenchen	GCA 1834155.1	E	Give	GCA 2266215.1
B	Heidelberg	GCA 284795.1	C2	Muenchen	GCA 1833235.1	E	Give	GCA 487215.1
B	Heidelberg	GCA 1478505.1	C2	Muenchen	GCA 1481325.1	E	Give	GCA 732045.1

B	Heidelberg	GCA 2060215.1	C2	Muenchen	GCA 2241555.2	E	Give	GCA 2106825.1
B	Heidelberg	GCA 603725.1	C2	Muenchen	GCA 1240705.1	E	Give	GCA 2107545.1
B	Heidelberg	GCA 2926405.1	C2	Muenchen	GCA 1241675.1	E	Give	GCA 2106715.1
B	Heidelberg	GCA 1478975.1	C2	Muenchen	GCA 2059525.1	E	Give	GCA 2105965.1
B	Heidelberg	GCA 2062895.1	C2	Muenchen	GCA 1247375.1	E	Give	GCA 2105985.1
B	Heidelberg	GCA 1240675.1	C2	Muenchen	GCA 1247595.1	E	Give	GCA 2107415.1
B	Heidelberg	GCA 2265815.1	C2	Muenchen	GCA 1834725.1	E	Give	GCA 2065645.1
B	Heidelberg	GCA 962405.1	C2	Muenchen	GCA 2060015.1	E	Give	GCA 1878895.1
B	Heidelberg	GCA 603525.1	C2	Muenchen	GCA 2241595.2	E	Give	GCA 505465.1
B	Heidelberg	GCA 962695.1	C2	Muenchen	GCA 2241655.2	E	Give	GCA 2863765.1
B	Heidelberg	GCA 1245035.1	C2	Muenchen	GCA 2241795.2	E	Give	GCA 505465.1
B	Heidelberg	GCA 962475.1	C2	Muenchen	GCA 2241855.2	E	Give	GCA 2107415.1
B	Heidelberg	GCA 1246805.1	C2	Muenchen	GCA 1242125.1	E	Give	GCA 2266215.1
B	Heidelberg	GCA 1247075.1	C2	Muenchen	GCA 1246885.1	E	Give	GCA 3117975.1
B	Heidelberg	GCA 2915375.1	C2	Muenchen	GCA 1834145.1	E	Give	GCA 3118135.1
B	Heidelberg	GCA 2915405.1	C2	Muenchen	GCA 3119515.1	E	London	GCA 2063165.1
B	Heidelberg	GCA 603705.1	C2	Muenchen	GCA 486955.1	E	London	GCA 2064515.1
B	Heidelberg	GCA 1245005.1	C2	Muenchen	GCA 1834245.1	E	London	GCA 2047355.1
B	Heidelberg	GCA 601395.1	C2	Muenchen	GCA 1834325.1	E	London	GCA 2048305.1
B	Heidelberg	GCA 1245935.1	C2	Muenchen	GCA 1245635.1	E	London	GCA 1479935.1
B	Heidelberg	GCA 603765.1	C2	Muenchen	GCA 1240835.1	E	Meleagridis	GCA 2044745.1
B	Heidelberg	GCA 603845.1	C2	Muenchen	GCA 1834095.1	E	Meleagridis	GCA 2044885.1
B	Heidelberg	GCA 1242785.1	C2	Muenchen	GCA 2241775.2	E	Meleagridis	GCA 2045015.1
B	Heidelberg	GCA 1272325.1	C2	Muenchen	GCA 2031245.1	E	Meleagridis	GCA 2046085.1
B	Heidelberg	GCA 1242195.1	C2	Muenchen	GCA 1240125.1	E	Meleagridis	GCA 2044805.1
B	Heidelberg	GCA 603665.1	C2	Muenchen	GCA 2263325.1	E	Meleagridis	GCA 2063075.1
B	Heidelberg	GCA 2261085.1	C2	Muenchen	GCA 1243615.1	E	Meleagridis	GCA 486835.1
B	Heidelberg	GCA 284775.1	C2	Muenchen	GCA 1832485.1	E	Meleagridis	GCA 3120595.1
B	Heidelberg	GCA 962435.1	C2	Muenchen	GCA 2241805.2	E	Meleagridis	GCA 3120715.1
B	Heidelberg	GCA 603345.3	C2	Muenchen	GCA 1835095.1	E	Uganda	GCA 2030165.1
B	Heidelberg	GCA 962295.1	C2	Muenchen	GCA 1479965.1	E	Uganda	GCA 2063615.1
B	Heidelberg	GCA 1242645.1	C2	Muenchen	GCA 1481135.1	E	Uganda	GCA 2048685.1
B	Heidelberg	GCA 2915395.1	C2	Muenchen	GCA 2263315.1	E	Uganda	GCA 2047575.1
B	Heidelberg	GCA 2926285.1	C2	Muenchen	GCA 2241835.2	E	Uganda	GCA 2047785.1
B	Heidelberg	GCA 962365.1	C2	Muenchen	GCA 2059695.1	E	Uganda	GCA 2047505.1
B	Heidelberg	GCA 603745.1	C2	Muenchen	GCA 1240345.1	E	Senftenberg	GCA 1247445.1
B	Heidelberg	GCA 601415.1	C2	Muenchen	GCA 412795.1	E	Senftenberg	GCA 1246655.1
B	Heidelberg	GCA 284815.1	C2	Muenchen	GCA 2059995.1	E	Senftenberg	GCA 486465.1
B	Heidelberg	GCA 603825.1	C2	Muenchen	GCA 1244895.1	E	Senftenberg	GCA 1479095.1
B	Heidelberg	GCA 962145.1	C2	Muenchen	GCA 2059935.1	E	Senftenberg	GCA 1276765.1
B	Heidelberg	GCA 2265715.1	C2	Muenchen	GCA 464895.1	E	Senftenberg	GCA 2031375.1
B	Heidelberg	GCA 962515.1	C2	Muenchen	GCA 412815.1	E	Senftenberg	GCA 486505.1
B	Heidelberg	GCA 603865.1	C2	Muenchen	GCA 2059945.1	E	Senftenberg	GCA 1276925.1
B	Heidelberg	GCA 962595.1	C2	Albany	GCA 2032745.1	E	Senftenberg	GCA 2030925.1
B	Heidelberg	GCA 464935.1	C2	Albany	GCA 1246755.1	E	Senftenberg	GCA 1276775.1
B	Heidelberg	GCA 962395.1	C2	Albany	GCA 2048105.1	E	Senftenberg	GCA 1240395.1
B	Heidelberg	GCA 603385.1	C2	Albany	GCA 1243145.1	E	Senftenberg	GCA 484435.1
B	Heidelberg	GCA 1481095.1	C2	Albany	GCA 1479845.1	E	Senftenberg	GCA 1276745.1
B	Heidelberg	GCA 2037325.1	C2	Albany	GCA 1241765.1	E	Senftenberg	GCA 486875.1
B	Heidelberg	GCA 1245655.1	C2	Albany	GCA 2047035.1	E	Senftenberg	GCA 1479465.1
B	Heidelberg	GCA 2270265.1	C2	Albany	GCA 2046575.1	E	Senftenberg	GCA 1479525.1
B	Heidelberg	GCA 603645.1	C2	Albany	GCA 2062195.1	E	Senftenberg	GCA 1478905.1
B	Heidelberg	GCA 962445.1	C2	Albany	GCA 2071615.1	E	Senftenberg	GCA 1478345.1
B	Heidelberg	GCA 962115.1	C2	Albany	GCA 2283235.1	E	Senftenberg	GCA 2031755.1
B	Heidelberg	GCA 962565.1	C2	Albany	GCA 1244795.1	E	Senftenberg	GCA 486975.1
B	Heidelberg	GCA 962175.1	C2	Albany	GCA 2047105.1	E	Senftenberg	GCA 1481035.1
B	Agona	GCA 494505.1	C2	Albany	GCA 487515.2	E	Senftenberg	GCA 2270335.1
B	Agona	GCA 2033225.1	C2	Albany	GCA 3047335.1	E	Senftenberg	GCA 263295.1
B	Agona	GCA 494325.1	C2	Kottbus	GCA 2044865.1	E	Senftenberg	GCA 483995.1
B	Agona	GCA 487555.1	C2	Kottbus	GCA 2045115.1	E	Senftenberg	GCA 1477795.1
B	Agona	GCA 484115.1	C2	Kottbus	GCA 2045035.1	E	Senftenberg	GCA 1478295.1
B	Agona	GCA 487495.1	C2	Litchfield	GCA 1477885.1	E	Senftenberg	GCA 1276825.1
B	Agona	GCA 484255.1	C2	Litchfield	GCA 1243175.1	E	Senftenberg	GCA 1479005.1
B	Agona	GCA 483895.1	C2	Litchfield	GCA 2107495.1	E	Senftenberg	GCA 2270405.1
B	Agona	GCA 484235.1	C2	Litchfield	GCA 2063035.1	E	Senftenberg	GCA 1457675.1
B	Agona	GCA 484395.1	C2	Litchfield	GCA 2064575.1	E	Senftenberg	GCA 1969425.1
B	Agona	GCA 484095.1	C2	Litchfield	GCA 2064525.1	E	Senftenberg	GCA 486525.2
B	Agona	GCA 494445.1	C2	Litchfield	GCA 1243305.1	E	Senftenberg	GCA 2953175.1
B	Agona	GCA 483815.1	C2	Litchfield	GCA 1241815.1	E	Senftenberg	GCA 483995.1
B	Agona	GCA 330625.1	C2	Litchfield	GCA 487855.1	E	Krefeld	GCA 1975445.1
B	Agona	GCA 484135.1	C2	Litchfield	GCA 2059605.1	E	Liverpool	GCA 1242905.1

B	Agona	GCA 487535.1	C2	Litchfield	GCA 2030935.1	E	Liverpool	GCA 1245755.1
B	Agona	GCA 2106835.1	C2	Litchfield	GCA 1479305.1	E	Liverpool	GCA 2061095.1
B	Agona	GCA 484415.1	C2	Litchfield	GCA 1243325.1	A	Paratyphi A	GCA 11885.1
B	Agona	GCA 330645.1	C2	Litchfield	GCA 2058745.1	A	Paratyphi A	GCA 486725.2
B	Agona	GCA 487475.1	C2	Manhattan	GCA 2234795.1	A	Koessen	GCA 1975425.1
B	Agona	GCA 1480835.1	C2	Manhattan	GCA 1448765.1	A	Nitra	GCA 1975605.1
B	Agona	GCA 484155.1	C2	Manhattan	GCA 430975.2	F	Rubislaw	GCA 1448845.1
B	Agona	GCA 2031865.1	C2	Manhattan	GCA 2064535.1	F	Rubislaw	GCA 486585.2
B	Agona	GCA 2056815.1	C2	Manhattan	GCA 2049165.1	F	Worthington	GCA 1242245.1
B	Agona	GCA 494365.1	C2	Manhattan	GCA 3078335.1	F	Worthington	GCA 2046845.1
B	Agona	GCA 494425.1	C2	Corvallis	GCA 2265865.1	F	Abatetuba	GCA 487915.2
B	Agona	GCA 1240875.1	C2	Corvallis	GCA 2066565.1	F	Aberdeen	GCA 2283215.1
B	Agona	GCA 494465.1	C2	Corvallis	GCA 2045955.1	G	Cubana	GCA 2046285.1
B	Agona	GCA 484175.1	C2	Corvallis	GCA 2045985.1	G	Cubana	GCA 430125.1
B	Agona	GCA 330665.1	C2	Corvallis	GCA 2063295.1	K	Cerro	GCA 505365.2
B	Agona	GCA 1244085.1	C2	Corvallis	GCA 2062535.1	K	Cerro	GCA 1941405.1
B	Agona	GCA 494405.1	C2	Corvallis	GCA 3071545.1	L	Minnesota	GCA 486855.2
B	Agona	GCA 494345.1	C2	Blockley	GCA 2045305.1	L	Minnesota	GCA 2196535.1
B	Agona	GCA 483935.1	C2	Blockley	GCA 2045325.1	M	Pomona	GCA 2048725.1
B	Agona	GCA 1479025.1	C2	Blockley	GCA 2048695.1	M	Pomona	GCA 2049235.1
B	Agona	GCA 2056865.1	C2	Blockley	GCA 2049195.1	M	Adelaide	GCA 2049335.1
B	Agona	GCA 20885.1	C2	Blockley	GCA 2283055.1	M	Adelaide	GCA 1999405.1
B	Agona	GCA 484195.2	C2	Blockley	GCA 2283115.1	O	Monschau	GCA 2045005.1
B	Agona	GCA 494385.2	C2	Bardo	GCA 1975305.1	O	Monschau	GCA 2045845.1
B	Agona	GCA 503845.1	C2	Bardo	GCA 2066175.1	O	Ealing	GCA 2265925.1
B	Agona	GCA 2057025.1	C2	Bardo	GCA 2241535.2	O	Ealing	GCA 2046005.1
B	Agona	GCA 2057015.1	C2	Glostrup	GCA 2265965.1	P	Inverness	GCA 2034735.1
B	Agona	GCA 483875.1	C2	Takoradi	GCA 2266045.1	P	Inverness	GCA 487155.2
B	Agona	GCA 2031215.1	C2	Manchester	GCA 1975515.1	R	Johannesburg	GCA 2034785.1
B	Agona	GCA 1480635.1	C2	Yovokome	GCA 1975645.1	R	Johannesburg	GCA 1975405.1
B	Agona	GCA 484315.1	D	Dublin	GCA 192085.1	Q	Wandsworth	GCA 1975625.1
B	Agona	GCA 484055.1	D	Dublin	GCA 1448615.1	H	Onderstepoort	GCA 2208255.1
B	Agona	GCA 484075.1	D	Dublin	GCA 336015.1	I	Gaminara	GCA 2741885.1
B	Agona	GCA 1479085.1	D	Dublin	GCA 414745.2	I	Tees	GCA 2265995.1
B	Agona	GCA 2062875.1	D	Dublin	GCA 353305.2	S	Waycross	GCA 2211845.1
B	Agona	GCA 1478405.1	D	Dublin	GCA 20925.1	T	Weslaco	GCA 1448905.1
B	Agona	GCA 3120635.1	D	Dublin	GCA 1953035.1	V	Quebec	GCA 2208315.1
B	Agona	GCA 1477685.1	D	Dublin	GCA 953175.1	W	Apapa	GCA 1975285.1
B	Agona	GCA 3117295.1	D	Dublin	GCA 3069985.1	X	Bergen	GCA 1975325.1
B	Agona	GCA 2106735.1	D	Dublin	GCA 2266085.1	Y	Djakarta	GCA 1975365.1
B	Agona	GCA 484375.1	D	Dublin	GCA 3070425.1	O51	Antsalova	GCA 1956735.1
B	Agona	GCA 3118725.1	D	Dublin	GCA 3069635.1	O54	Borreze	GCA 1975345.1
B	Agona	GCA 2031425.1	D	Dublin	GCA 3066325.1	O67	Crossness	GCA 1975245.1

Table S2 Bacterial strains used in specificity tests for *Salmonella* serogroups and PCR results.

Serogroup	Strains		Source *	Number	PCR results &				
	Serovar				1	2	3	4	5
<i>Salmonella</i>									
A	<i>S. Paratyphi A</i>		CMCC(B) 50093	1	-	-	-	-	-
B	<i>S. Typhimurium</i>		Laboratory strain	3	+	-	-	-	-
B	<i>S. Indiana</i>		Laboratory strain	3	+	-	-	-	-
B	<i>S. Derby</i>		Laboratory strain	3	+	-	-	-	-
B	<i>S. Agona</i>		Laboratory strain	3	+	-	-	-	-
B	<i>S. Saintpaul</i>		Laboratory strain	3	+	-	-	-	-
B	<i>S. Stanley</i>		Laboratory strain	3	+	-	-	-	-
B	<i>S. Heidelberg</i>		Laboratory strain	1	+	-	-	-	-
B	<i>S. Lagos</i>		Laboratory strain	1	+	-	-	-	-
B	<i>S. ParatyphiB</i>		CMCC(B) 5004	1	+	-	-	-	-
B	<i>S. Kaapstad</i>		Laboratory strain	1	+	-	-	-	-
B	<i>S. Schwarzengrund</i>		Laboratory strain	3	+	-	-	-	-
C1	<i>S. Lomita</i>		Laboratory strain	3	-	+	-	-	-
C1	<i>S. Braenderup</i>		Laboratory strain	3	-	+	-	-	-
C1	<i>S. Isangi</i>		Laboratory strain	3	-	+	-	-	-

C1	<i>S. Thompson</i>	CMCC(B) 20023	1	-	+	-	-	-
C1	<i>S. Thompson</i>	Laboratory strain	2	-	+	-	-	-
C1	<i>S. Rissen</i>	Laboratory strain	3	-	+	-	-	-
C1	<i>S. Infantis</i>	Laboratory strain	3	-	+	-	-	-
C1	<i>S. Montevideo</i>	Laboratory strain	2	-	+	-	-	-
C1	<i>S. Bareilly</i>	Laboratory strain	2	-	+	-	-	-
C1	<i>S. Mbandaka</i>	Laboratory strain	1	-	+	-	-	-
C1	<i>S. Riggil</i>	Laboratory strain	1	-	+	-	-	-
C1	<i>S. Virchow</i>	Laboratory strain	3	-	+	-	-	-
C1	<i>S. Eingedi</i>	Laboratory strain	1	-	+	-	-	-
C1	<i>S. Singapore</i>	Laboratory strain	2	-	+	-	-	-
C1	<i>S. Potsdam</i>	Laboratory strain	3	-	+	-	-	-
C2	<i>S. Muenchen</i>	Laboratory strain	1	-	-	+	-	-
C2	<i>S. Goldcoast</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Manhattan</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Corvallis</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Newport</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Hadar</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Albany</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Kottbus</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Istanbul</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Tallahassee</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Litchfield</i>	Laboratory strain	3	-	-	+	-	-
C2	<i>S. Kentucky</i>	Laboratory strain	2	-	-	+	-	-
C2	<i>S. Chailey</i>	Laboratory strain	2	-	-	+	-	-
D	<i>S. Enteritidis</i>	CMCC(B) 50335	1	-	-	-	+	-
D	<i>S. Enteritidis</i>	Laboratory strain	2	-	-	-	+	-
D	<i>S. Typhi</i>	CMCC(B) 50071	1	-	-	-	+	-
E	<i>S. Senftenberg</i>	Laboratory strain	2	-	-	-	-	+
E	<i>S. Weltevreden</i>	Laboratory strain	3	-	-	-	-	+
E	<i>S. London</i>	Laboratory strain	3	-	-	-	-	+
E	<i>S. Meleagridis</i>	Laboratory strain	3	-	-	-	-	+
E	<i>S. Give</i>	Laboratory strain	2	-	-	-	-	+
E	<i>S. Ughelli</i>	Laboratory strain	1	-	-	-	-	+
E	<i>S. Anatum</i>	Laboratory strain	1	-	-	-	-	+
E	<i>S. Muenster</i>	Laboratory strain	3	-	-	-	-	+
F	<i>S. Aberdeen</i>	Laboratory strain	1	-	-	-	-	-
H	<i>S. Carrau</i>	Laboratory strain	1	-	-	-	-	-
H	<i>S. Madelia</i>	Laboratory strain	2	-	-	-	-	-
M	<i>S. Pomona</i>	Laboratory strain	2	-	-	-	-	-
Q	<i>S. Wandsworth</i>	Laboratory strain	3	-	-	-	-	-
Non-Salmonella								
	<i>E. Coli</i>	ATCC 25922	1	-	-	-	-	-
	<i>E. Coli</i>	CMCC(B) 44105	1	-	-	-	-	-
	<i>C. Sakazakii</i>	ATCC 29544	1	-	-	-	-	-
	<i>S. Sonnei</i>	CMCC(B) 51592	1	-	-	-	-	-
	<i>S. Flexneri</i>	ATCC 12022	1	-	-	-	-	-
	<i>E. Cloacae</i>	CMCC(B) 45301	1	-	-	-	-	-
	<i>E. Aerogenes</i>	ATCC 13048	1	-	-	-	-	-
	<i>S. Marcescens</i>	CMCC(B) 41002	1	-	-	-	-	-
	<i>P. Vulgaris</i>	CMCC(B) 49027	1	-	-	-	-	-
	<i>Y. Enterocolitica</i>	CMCC(B) 52204	1	-	-	-	-	-
	<i>A. Nitrate</i>	NICBPB 25001	1	-	-	-	-	-
	<i>A. Baumannii</i>	ATCC 19606	1	-	-	-	-	-
	<i>C. Malonaticus</i>	Laboratory strain	1	-	-	-	-	-
	<i>E. Faecalis</i>	ATCC 29212	1	-	-	-	-	-
	<i>V. Parahaemolyticus</i>	ATCC 17802	1	-	-	-	-	-
	<i>S. Aureus</i>	ATCC 25923	1	-	-	-	-	-
	<i>B. Cereus</i>	ATCC 14579	1	-	-	-	-	-
	<i>B. Thuringiensis</i>	ATCC 10792	1	-	-	-	-	-

<i>B. Subtilis</i>	ATCC 6633	1	-	-	-	-	-
<i>B. Mycooides</i>	ATCC 19115	1	-	-	-	-	-
<i>L. Monocytogenes</i>	ATCC 15442	1	-	-	-	-	-
<i>P. Aeruginosa</i>	Laboratory strain	1	-	-	-	-	-
Total		147					

* Laboratory strains were isolated from food samples.

& 1, 2, 3, 4, and 5 were designed by *B-rfbJ*, *C1-9679*, *C2-pimB*, *D-rfbJ*, and *E-rfbC* for identification of serogroup B, C1, C2, D, and E, respectively.

Table S3 Bacterial strains used in specificity tests for *S. Enteritidis* and PCR results.

Strains	Source *	Number	PCR results &			
			1	2	3	4
<i>Salmonella</i>						
<i>S. Enteritidis</i>	CMCC 50335	1	+	+	+	+
<i>S. Enteritidis</i>	Laboratory strain	90	+	+	+	+
<i>S. Typhimurium</i>	ATCC 14028	1	-	-	-	-
<i>S. Typhimurium</i>	Laboratory strain	9	-	-	-	-
<i>S. Derby</i>	Laboratory strain	8	-	-	-	-
<i>S. Indiana</i>	Laboratory strain	8	-	-	-	-
<i>S. Agona</i>	Laboratory strain	5	-	-	-	-
<i>S. Albany</i>	Laboratory strain	9	-	-	-	-
<i>S. Hadar</i>	Laboratory strain	5	-	-	-	-
<i>S. Weltevreden</i>	Laboratory strain	9	-	-	-	-
<i>S. London</i>	Laboratory strain	8	-	-	-	-
<i>S. Wandsworth</i>	Laboratory strain	1	-	-	-	-
<i>S. Stanley</i>	Laboratory strain	1	-	-	-	-
<i>S. Rissen</i>	Laboratory strain	9	-	-	-	-
<i>S. Meleagridis</i>	Laboratory strain	8	-	-	-	-
<i>S. Corvallis</i>	Laboratory strain	1	-	-	-	-
<i>S. Kottbus</i>	Laboratory strain	1	-	-	-	-
<i>S. Pomona</i>	Laboratory strain	9	-	-	-	-
<i>S. Senftenberg</i>	Laboratory strain	9	-	-	-	-
<i>S. Braenderup</i>	Laboratory strain	9	-	-	-	-
<i>S. Tallahassee</i>	Laboratory strain	1	-	-	-	-
<i>S. Newport</i>	Laboratory strain	1	-	-	-	-
<i>S. Potsdam</i>	Laboratory strain	1	-	-	-	-
<i>S. Infantis</i>	Laboratory strain	5	-	-	-	-
<i>S. Muenster</i>	Laboratory strain	1	-	-	-	-
<i>S. Manhattan</i>	Laboratory strain	1	-	-	-	-
<i>S. Kentucky</i>	Laboratory strain	1	-	-	-	-
<i>S. Chailey</i>	Laboratory strain	1	-	-	-	-
<i>S. Litchfield</i>	Laboratory strain	1	-	-	-	-
<i>S. Bareilly</i>	Laboratory strain	1	-	-	-	-
<i>S. Give</i>	Laboratory strain	1	-	-	-	-
<i>S. Montevideo</i>	Laboratory strain	1	-	-	-	-
<i>S. Mbandaka</i>	Laboratory strain	1	-	-	-	-
<i>S. Riggil</i>	Laboratory strain	1	-	-	-	-
<i>S. Lomita</i>	Laboratory strain	1	-	-	-	-
<i>S. Saintpaul</i>	Laboratory strain	1	-	-	-	-
<i>S. Aberdeen</i>	Laboratory strain	1	-	-	-	-
<i>S. Istanbul</i>	Laboratory strain	1	-	-	-	-
<i>S. Lagos</i>	Laboratory strain	1	-	-	-	-
<i>S. Singapore</i>	Laboratory strain	1	-	-	-	-
<i>S. Eingedi</i>	Laboratory strain	1	-	-	-	-
<i>S. Virchow</i>	Laboratory strain	3	-	-	-	-

<i>S. Heidelberg</i>	Laboratory strain	1	-	-	-	-
<i>S. Thompson</i>	Laboratory strain	1	-	-	-	-
Non-Salmonella						
<i>E. Coli</i>	ATCC 25922	1	-	-	-	-
<i>E. Coli</i>	CMCC(B) 44102	1	-	-	-	-
<i>E. Coli</i>	ATCC 43886	1	-	-	-	-
<i>E. Coli O157</i>	ATCC 12900	1	-	-	-	-
<i>C. Sakazakii</i>	ATCC 29544	1	-	-	-	-
<i>C. Sakazakii</i>	Laboratory strain	1	-	-	-	-
<i>S. Sonnei</i>	CMCC(B) 51592	1	-	-	-	-
<i>Y. Enterocolitica</i>	Laboratory strain	1	-	-	-	-
<i>Y. Enterocolitica</i>	CMCC(B) 52204	1	-	-	-	-
<i>V. Parahemolyticus</i>	ATCC 33847	1	-	-	-	-
<i>V. Parahemolyticus</i>	ATCC 17802	1	-	-	-	-
<i>S. Aureus</i>	ATCC 25923	1	-	-	-	-
<i>S. Aureus</i>	ATCC 29213	1	-	-	-	-
<i>P. Aeruginosa</i>	ATCC 9027	1	-	-	-	-
<i>P. Aeruginosa</i>	ATCC 15442	1	-	-	-	-
<i>L. Monocytogenes</i>	ATCC 19115	1	-	-	-	-
<i>L. Monocytogenes</i>	CMCC(B) 54002	1	-	-	-	-
<i>B. Cereus</i>	ATCC 14579	1	-	-	-	-
<i>B. Subtilis</i>	ATCC 6633	1	-	-	-	-
<i>B. Mycoides</i>	ATCC 10206	1	-	-	-	-
<i>C. Jejuni</i>	Laboratory strain	2	-	-	-	-
Total		253				

* Laboratory strains were isolated from food samples.

& 1, 2, 3, and 4 were designed by *SE18636*, *SE16574*, *SE2599*, and *SE13329* for identification of *S. Enteritidis*.

Table S4 Specific primer sets of PCR for identifying *Salmonella* serogroup B, C1, C2, D, E, and *S. Enteritidis*.

Specificity	Target gene *	Primer sequence (5'-3')	PCR product (bp)
Serogroup B	<i>B-rfbJ</i>	TGTAATTGTCAGTGGGGCTT	876
		AACCGTTTCAGTAGTTCCTC	
Serogroup C1	<i>C1-9679</i>	GTGACGACAAATACCCGCAG	244
		CTGGATCGGCATACTCCACT	
Serogroup C2	<i>C2-pimB</i>	TTAAGTTATGCAGGCTCCGA	929
		TCCTTGAAGAAAATGCCAGT	
Serogroup D	<i>D-rfbJ</i>	CTTGGATCACGACTTACATC	691
		CTCTTTCTTTGACCACACCA	
Serogroup E	<i>E-rfbC</i>	AGTGTTTAGTGATGAACGTG	434
		GACTATCTATTCCCCATGTA	
<i>S. Enteritidis</i>	<i>SE18636</i>	GTCTCGGCTTCCCTTTTGCT	529
	<i>SE16574</i>	TCAGACTTCCGCAATACCAT	
	<i>SE2599</i>	GGACAATTTATGCTCACAGT	471
	<i>SE13329</i>	CTAACGGCTAATATCGAACC	
		TCCTTCAGCTTGGTTTCGAT	
		CAGTACGGCCTTATAAACCT	350
		TCAGATCAGCGTGGAACAAT	
		CAGGTGCGGAAAATACCAT	406

* The detailed nucleotide sequences were listed in supplementary material.

Table S5 Comparison of existing detection methods for *Salmonella*.

Method	Target	Detection Time	Sensitivity	Refs
Real-time PCR	<i>Salmonella</i> spp. and <i>Salmonella</i> Enteritidis	~1 h	2.49 CFU/mL	[1]
Phage-conjugated magnetic bead separation coupled with real-time PCR	<i>Salmonella</i>	1.5 h	< 30 CFU/mL	[2]
Real-time PCR	<i>Salmonella</i> Typhi, <i>Salmonella</i> Paratyphi A and other <i>Salmonella</i> spp.	~1 h	10 ³ –10 ⁴ CFU/mL	[3]
mPCR	<i>Salmonella</i> Typhi and Paratyphi A	1~2 h	4.5×10 ⁴ –5.5×10 ⁴ CFU/ml	[4]
mPCR	<i>Salmonella</i> Enteritidis, Typhi and Typhimurium	1~2 h	10 ³ CFU/mL	[5]
mPCR	<i>Salmonella</i> five serogroups (B, C1, C2, D, and E) and two serovars (<i>S.</i> Enteritidis and <i>S.</i> Typhimurium)	1~2 h	10 ³ –10 ⁴ CFU/mL	Our study

Nucleotide sequences> *B-rfbJ*

ATGACCTTTTTGAAAGAATATGTAATTGTCAGTGGGGCTTCCGGCTTTATTGGTAAGCATTTACTCGA
AGCGCTAAAAAATCGGGGATTTCAAGTTGTCGCAATCACTCGAGATGTAATAAAAAATAATAGTAAT
GCATTAGCTAATGTTAGATGGTGCAGTTGGGATAATATCGAATTATTAGTCGAGGAGTTATCAATTG
ATTCTGCATTAATTGGTATCATTCAATTTGGCAACAGAATATGGGCATAAAACATCATCTCTCATAAAT
ATTGAAGATGCAAATGTTATAAAACCATTAAGCTTCTTGATTTGGCAATAAAATATCGGGCGGATA
TCTTTTTAAATACAGATAGTTTTTTTGCCAAGAAAGATTTAATTATCAACATATGCGGCCTTATATA
ATTACTAAAAGACACTTTGATGAAATTGGGCATTATTATGCTAATATGCATGACATTTCAATTTGAAA
CATGCGATTAGAGCATGTATATGGGCCTGGGGATGGTGAAAATAAATTTATTCCATACATTATCGAC
TGCTTAAATAAAAAACAGAGTTGCGTGAAATGTACAACAGGCGAACAGATAAGAGACTTTATTTTTG
TAGATGATGTGGTAAATGCTTATTTAACTATATTAGAAAATAGAAAAGAAGTACCTTCATATACTGA
GTATCAAGTTGGAACGGTGTGCTGGGGTAAGTTTGAAAGATTTTCTGGTTTATTTGCAAAAATACTATGA
TGCCAGGTTTCATCGAGTATATTTGAATTTGGTGCGATAGAGCAAAGAGATAATGAAATAATGTTCTC
TGTAGCAAATAATAAAAATTTAAAAGCAATGGGCTGGAAACCAAATTTTCGATTATAAAAAAGGAAT
TGAAGAACTACTGAAACGGTTATGA

> *C1-9679*

ATGATGCTGAATGTGTTTCGCGGGCGTGTGTGACGACAAATACCCGCAGATCAGCAAAAGCAGGCGT
GCGCACTGGGAAAACCTGAACACATTCTTCAGCTACCTGCCGGATATCCGCCAGGCGATCTACACCA
CAAACGCTATCGAATCACTGAACAGTGTGATCCGGGCCGAGATAAGAAATGCAAGGTATCCCGGG
AGACGACTCAGTGTGGAAGGTTATTTATCTGGCGATCAAAGATGTCTCAAAAAAGTGGAGTATGCCG
ATCCAGCACTGGCGGCTGGCAATGA

> *C2-pimB*

ATGGAAATAAATGAAATAAAAAATATCTCTCGTTCATGAGTGGTTATTAAGTTATGCAGGCTCCGAAC
AGGTATCATCTGCCATCCTGCATGTTTTCTGAAGCGAAGTTATATTCGGTGGTTGATTTTCTAACG
GATGAACAAAGAAGACATTTTCTGGGGAAATATGCTACTACCACATTTATTCAAAATTTACCTAAAG

CTAAAAAATTTTACCAGAAATATTTACCACTAATGCCACTGGCTATTGAACAACCTTGATTTATCAGAT
GCTAATATCATCATTAGTAGCGCCATTCCGTTGCAAAAGGTGTTATTTCCGGACCAGATCAGCTTCA
CATTAGCTATGTTCAATTCTCTATTTCGATATGCGTGGGATTTACAGCATCAGTACCTTAATGAGTCTA
ACCTGAATAAAGGAATTAAGGTTGGTTAGCAAAATGGCTTCTTCACAAAATACGAATTTGGGATTC
TCGAACCGCAAATGGGGTTGATCATTTTATAGCTAATTCTCAATATATCGCGCGTAGAATTAAAAAA
GTATACAGACGTGAGGCTTCAGTTATATATCCGCCTGTAGATGTGGATAATTTTGAAGTAAAAAATG
AAAAGCAAGACTATTATTTACAGCATCCCCTATGGTACCCTACAAACGTATTGATCTTATTGTGCGAA
GCCTTTAGTAAAAATGCCGAAAAGAAATTAGTAGTTATTGGTGATGGACCGGAGATGAAAAAATA
AAGAGCAAGGCTACAGACAATATAAAATTGCTCGGTTATCAATCTTTTCTGTTTTAAAAGAGTATAT
GCAGAGCGCCAGGGCGTTTGTGTTTTGCAGCGGAAGAGGACTTTGGAATAATACCTGTGCGAAGCTCAA
GCTTGCGGTACCCCTGTTATTGCCTTTGGGAAGGGTGGGGCCTTAGAAAACCGTTCGCCACTAGGTGT
AGAGGAACCGACTGGCATTCTTCAAGGAACAGAATATTGCTTCTTGCATGAAGCTGTTAGTGAA
TTTGAAAAAATGCATCATTTTTTACATCTCAGGCTGTAGAAAAATGCAGAAAAATTTTCTCGATC
AAGATTTGAACAAGAATTTAAGAACTTTGTTAATGAAAAGTGAATCTTTTCAAAACAGAACAGATT
ATTAACGTAA

> *D-rfbJ*

ATGAAAATTCTAATAATGGGAGCGTTTGGGTTCTTGGATCACGACTTACATCCTACTTCGAAAAGTCG
ACATACTGTGATTGGCTTAGCAAGGAAGAGGAACAATGAAGCTACCATAAATAATATTATTACACG
ACAGAAAATAATTGGATCGAAAAAATAGTAGAATTTAAACCGAATATTATTATTAACACTATTGCTT
GCTATGGAAGACATAACGAACCTGCAACAGCTTAATAGAAAAGCAATATTCTTATGCCTATCAGGGT
ATTAGAATCTATCTCATCACTTGATGCAGTATTCATAAATTGTGGAACATCACTGCCACCAAATACGA
GTTTATATGCATATACTAAACAAAAGCAAATGAACTCGCCGCCATTATAGATAAAGTTTGC GG
TAAATATATAGAGTTAAAATTGGAGCATTCTATGGAGCTTTTGATGGAGACGATAAGTTTACCAGT
ATGGTTATTAGACGTTGTTAAGTAACCAGCCAGTAAAGTTAACATCTGGTTTGCAACAGAGAGATT
TCTTGTATATAAAAAGATCTACTAACAGCGTTCGATTGTATTATAAGTAATGTTAATAATTTTCCCAA
TTTCATAGTATTGAAGTTGGTAGTGAAAGGCTATATCAATTCGTGAATATGTAGAGACTGTTAAAA
ATATCACAAAAGCAATTCTATAATTGAATTTGGTGTGGTCAAAGAAAAGAGCCAATGAATTGATGTA
TAGTTGTGCTGATATAGCAGAACTTGAAAAAATAGGATGGAAAAGAGAGTTCTCTCTTGTGATGCA
TTAACTGAAATAATTGAAGAGGAAGGGAAATGA

> *E-rfbC*

ATGAACGTTATTAACAGAAATTCCTGATGTATTAATTTTTGAACCTAAAGTGTTTAGTGATGAACG
TGGGTTCTTTATGGAAAGTTTAAATCAGAAAGTATTTGAGGAAGCGTTGGTCGAAAGATTGAATTT
GTTCAGGATAATCATTCAAATCAACTAAAGGTGTGTTACGTGGTTTACATTATCAAGTTGAACCTTA
TGCTCAAGGGAAGCTTGACGCTGTATAGCGGGAGAAGTTTTTGATGTTGCTGTAGATATTCGCAA
GATTCCGAAACGTTTGGTAAATGGGTTGGTGTCAATATTTCTTCTGAAAACAAAAGGCAGTTGTGGA
TACCTGAAGGTTTTGCTCATGGGTTCTTAGTATTAAGTGAAGAAGCTGAATTTGTTTATAAGACATCA
AACTATTACTCGGGCGAACATGAAAGAGGTATTTTGGAAATGATCCTGATATTAATATTACATGGG
GAATAGATAGTCCAATTCTTTTCAATAAAGATAAGATTCATAAAGGTTTAGTAAAGTAA

> *SE18636*

ATGAGCGACAATAAAACAGAATACTCATATTATATTAAGGTTAAAAATGAAAGCGCCCGGAAACGT
CTCGGCTTCCCTTTTGTCTTCTGGTGGAAAAGTAAAGCAGCGAAGCCGCTGCCACAGCACGCCTTGC
CGTATCAATGCTTGACGCCGATTTCGAACCGACAGATTTTGCAAACCGGTTTCGCGTTAATCCCCCG
CTGTTAACGAACTTCCGCCGAGGGAAAGTTTTGATACCACCTTCTGTGAGAAAATATGAGCTGGGCGG
CGAAGATGGCAAAACATTTATGCTCATCCCCGGCAGCCCGCTACTGACGCCACGACGAAAAACG

GAGGAATGCGCCGACGACGCTGGCACCGAAGAAAGCGGGACAGACACCAGTGACAACGACGAATG
TCAGGACTGCGAAGTTTCCGTCGCCACCCTGCCGTTCCCCAGCGCGTGTGCACATTTTACTTACG
CTGCCACAGACAAAAATATTTGCATCACGCCACCCGCGCTCAACGCAGGCATATTACCGTTCTCGA
AATGGAACAGGAAAACAGCTATATCCAGAACCTGTTAATGGTATTGCGGAAGTCTGAACAGGTTTCAT
GCCCAGGATGAGTAA

> SE16574

ATGTCAGAAACCGCTCTGGTTATCGTAAAATTCCTAATTGGTAAATCCGTCGGACAATTTATGCTCAC
AGTGGCTTTATTTTTCTTAATTATCATCTTCATTCCCTAGAGATATTACGGAGCTTATTGAGGCGCGTAG
CGATTTACCATATGCCGTTTCAGATTTTTAGTTTTGCTGTGGCTTACCTTATAGTGCTGATCCTCAAAGT
CACTGGTTATTTTTTCGTGTGCGGCGCTGCCGTTGTGCCAGCGTAGGGGCAGGGCAAAACGCATGTTA
AAAACGCTTAATTCATTGAGTACTGAACAGCTGTTTTACTTGAACCCTTTCTTAAAACTCATTCTCCC
ACTTTCCGGGCGTCTGGGATAACCCTGATGCAGATGCTCTGGTTAAGGCAGGTATCGTTCGTCCGGC
TGGTTCGTGTATCGACGGTGTTCGTGTGATGTTCAAATCGAACCCGAGTATGAGTCGTTAATGCTTT
CCACCTGGAATCCCTGCACAAAACGGTTCGATATTAGCCGTTAG

> SE2599

ATGGCGCATCTACAACCTTGTTAAACAAACCTCATCAGGGCTTCTGCTCCCGGCAACGCCGGAGAGTG
AGGACTTCCTGCGCTCAGTAAAAATCGGTGCGTGGATACACGCCGATTTAAGCGAGTACGTAACCTA
CGCGTTCCACAAACGTTTTTTCAAGCTCCTTCAGCTTGGTTTCGATTACTGGACTCCGATCGGCGGGG
CGATCCTGCCTCAGGAACAGGAGCTGATTACCGGCTTTGTCGATTTCTGTGTGAGTCAGCAGCGCA
GGGCCACAGTCCCGCACTCAGTGACGCGGCGGAACAGTACCTGCATAAGGTTGCTGTCAACCGAACG
CTCGATGTTGCGCTGCTCAAGTCCTTCGACGCTTTCGCGAGTGGGTAACCATTACGGCCGGGTTTTA
TACTGAGCATTATTATCCGGATGGCAGCCGTGGGCGCCGGCGAAATCCATCGCTTTTGCGAATATG
GACGAAACCGAGTTTCAGCAGGTTTATAAGGCCGTAAGTGAACGTCCTGTGGAAGTGGATTCTGTTTC
GTAATTTCTCTCTCCGGAAGAGGTGCAAAATGTCGACGCGCAACTGCTGGAGTTTGCGTAA

> SE13329

ATGAATAAAATAAATGTGCTGGGTGTAATAATAAAACACTACAAAACAATGTCAGATCAGCGTGGA
ACAATGTTGATGAGCGACATTATCGTACATTTTATTGTTCCGTTATCTCTTTCTTTCTGTTCTGTGCTGG
ACATACGGAATAATGAAACCGGCAATTGCTTCCGCTTTGTTAACTTCGGGGCTATTACAACAGCACT
ATTAATGAGTGCAGTAATAATGATTTATGAACAAAAACAAAAACCATCACTAAGATATCAGACATA
ATTGAAGGAAACAAATCCCGAGACAAATTGATATCATTAACACTAACAAAACCATATATGAGCAG
TTATGCCACAACGTCGCTTATGCAATATTAACCTCAATAGTATTGGTTATATTTTCAGTGATAATATA
TTTCTGCCTGACAATGCAGTGGATTAATGAAATGGTATTTTCGCGCACCTGCATATATTGTTAGCT
TTTTAGCCTATACATCTTTTTTATCACTGTTATAACGTTCTTAATGGTAATAAAAAAGATTTAGCACAA
TTTTAGATAATTGA

References

- [1] J. Wan, L. Zheng, L. Kong, Z. Lu, Y. Tao, Z. Feng, F. Lv, F. Meng, X. Bie, Development of a rapid detection method for real-time fluorescent quantitative PCR of *Salmonella* spp. and *Salmonella* Enteritidis in ready-to-eat fruits and vegetables, *LWT-Food Sci. Technol.* 149 (2021) 111837. <https://doi.org/10.1016/j.lwt.2021.111837>.
- [2] C. Huang, B. Y. Mahboubat, Y. Ding, Q. Yang, J. Wang, M. Zhou, X. Wang, Development of a rapid *Salmonella* detection method via phage-conjugated magnetic bead separation coupled with real-time PCR quantification, *LWT-Food Sci. Technol.* 142 (2021) 111075. <https://doi.org/10.1016/j.lwt.2021.111075>.
- [3] C. S. J. Teh, M. Y. Lau, C. W. Chong, S. T. Ngoi, K. H. Chua, W. S. Lee, K. L. Thong, One-step differential detection of *Salmonella* enterica serovar Typhi, serovar Paratyphi A and other *Salmonella*

- spp. by using a quadruplex real-time PCR assay, *Journal of Microbiological Methods* 183 (2021) 106184. <https://doi.org/10.1016/j.mimet.2021.106184>.
- [4] G. J. Yin Ngan, L. M. Ng, R. T. P. Lin, J. W. P. Teo, Development of a novel multiplex PCR for the detection and differentiation of *Salmonella* enterica serovars Typhi and Paratyphi A, *Research in Microbiology* 161 (2010) 243-248. <https://doi.org/10.1016/j.resmic.2010.03.005>.
- [5] C. G. de Freitas, Â. P. Santana, P. H. C. da Silva, V. S. P. Gonçalves, M. d. A. F. Barros, F. A. G. Torres, L. S. Murata, S. Perecmanis, PCR multiplex for detection of *Salmonella* Enteritidis, Typhi and Typhimurium and occurrence in poultry meat, *Int. J. Food Microbiol.* 139 (2010) 15-22. <https://doi.org/10.1016/j.ijfoodmicro.2010.02.007>.