

**Table S1 MS/MS parameters on the parent and quantitative daughter ion(m/z) and collision energy of antibiotics**

antibiotics	Name	Parent ion (m/z)	Daughter ion (m/z)	Collision energy (eV)	Decluster ring potential (eV)	IS
	Sulfadiazine	251	156 <sup>a</sup>	23	65	
			108	34		
	Sulfathiazole	256	156 <sup>a</sup>	22	63	
			108	32		
	Sulfapyridine	250	156 <sup>a</sup>	25	65	
			184	25		
	Sulfamerazine	265	156 <sup>a</sup>	25	82	
			172	25		
	Sulfameter	281	156 <sup>a</sup>	27	90	
			108	42		
Sulfonamides	Sulfamethizole	271	156 <sup>a</sup>	21	60	
			108	33		
	Sulfamethazine	279	186 <sup>a</sup>	27	90	
			108	27		
	Sulfamethoxypyridazine	281	156 <sup>a</sup>	25	95	
			108	45		
	Sulfachloropyridazine	285	156 <sup>a</sup>	22	60	
			108	34		
	Sulfamethoxazole	254	156 <sup>a</sup>	24	85	
			108	37		
	Sulfadoxine	311	156 <sup>a</sup>	26	73	
			108	37		
	Sulfamonomethoxine	281	156 <sup>a</sup>	26	87	

antibiotics	Name	Parent ion (m/z)	Daugh ter ion (m/z)	Collision energy (eV)	Decluste ring potential (eV)	IS
			108	38		
	Sulfisoxazole	268	156 <sup>a</sup>	25	82	
			113	22		
	Sulfadimethoxypyrimidine	311	156 <sup>a</sup>	31	80	
			108	38		
	Sulfaphenazole	315	156.0 <sup>a</sup>	29	85	
			160.1	31		
	Spiramycin	844	174 <sup>a</sup>	44	100	
			142	40		
	Tilmicosin	870	697 <sup>a</sup>	52	130	
			174	52		
	Oleandomycin	688	158 <sup>a</sup>	31	65	
			545	23		
	Tylosin	917	174 <sup>a</sup>	46	60	
			773	40		
macrolides	Kitasamycin	773	174 <sup>a</sup>	40	60	
			109	40		
	Erythromycin	735	576 <sup>a</sup>	25	45	
			158	25		
	Josamycin	828	174 <sup>a</sup>	42	130	
			109	45		
	Roxithromycin	838	680 <sup>a</sup>	30	45	
			158	40		
	Dimetridazole	142	96 <sup>a</sup>	21	40	D <sub>3</sub> -DMZ
			81	32		
nitroimidazoles	Ipronidazole	170.2	124 <sup>a</sup>	25	50	D <sub>3</sub> - IPZOH
			108.9	32		

antibiotics	Name	Parent ion (m/z)	Daughter ion (m/z)	Collision energy (eV)	Decluster ring potential (eV)	IS
	Ipronidazole-OH	186	168 <sup>a</sup> 122	19 29	40	
	Metronidazole	172	128 <sup>a</sup> 82	20 31	50	D <sub>3</sub> -DMZ
	Metronidazole-OH	188	123 <sup>a</sup> 126 140 <sup>a</sup>	14 16 16	55	D <sub>3</sub> -DMZ
	Ronidazole	201	55	29	40	
	Chloramphenicol	321	152 <sup>a</sup> 257	-22 -16	-20	D <sub>5</sub> -CAP
Chlorampheni cols	Thiamphenicol	354	185 <sup>a</sup> 290	-28 -18	-20	
	Florfenicol	356	336 <sup>a</sup> 185	-14 -27	-20	
	D <sub>3</sub> -Dimetridazole	145	99 <sup>a</sup>	22	40	
IS	D <sub>3</sub> -Ipronidazole	189	171 <sup>a</sup>	19	35	
	D <sub>5</sub> -Chloramphenicol	326	157 <sup>a</sup>	-21	-20	

<sup>a</sup>Quantitative ion

Fig S1. The influence of the amounts of C18 on the extraction efficiency

