

Table S5. Differences between observed and expected mixture ratios and standard deviation of quantification within the same run

Run	Mixed ratio %		Pos	DiBayes				TMAP				BWA				SNVer				Lofreq			
	Var1	Var2		Var2 %	Diff*	Ab diff	SD‡	Var2 %	Diff	Ab diff	SD	Var2	Diff	Ab diff	SD	Var2 %	Diff	Ab diff	SD	Var2 %	Diff	Ab diff	SD
1	50	50	173	50.57	0.57	0.57		47.39	-2.61	2.61		43.02	-6.98	6.98		46.95	-3.05	3.05		50.69	0.69	0.69	
			435	55.3	5.3	5.30	2.66	65.1	15.1	15.10	9.07	71.52	21.52	21.52	14.80	60	10	10	6.53	Nil#	Nil	Nil	8.52
			575	55.03	5.03	5.03		52.88	2.88	2.88		64.19	14.19	14.19		53.65	3.65	3.65		62.74	12.74	12.74	
2	50	50	173	46.16	-3.84	3.84		43.39	-6.61	6.61		47.08	-2.92	2.92		44.57	-5.43	5.43		43.95	-6.05	6.05	
			435	53.62	3.62	3.62	5.00	53.73	3.73	3.73	5.99	49.2	-0.8	0.80	1.67	52.94	2.94	2.94	5.23	53.82	3.82	3.82	5.50
			575	44.13	-5.87	5.87		43.31	-6.69	6.69		45.9	-4.1	4.10		43.31	-6.69	6.69		44.68	-5.32	5.32	
3	90	10	173	20.62	10.62	10.62		14.56	4.56	4.56		8	-2	2.00		Nil	Nil	Nil		16.79	6.79	6.79	
			435	12.68	2.68	2.68	4.43	20	10	10.00	3.95	40.38	30.38	30.38	16.58	14.42	4.42	4.42	Nil	Nil	Nil	Nil	Nil
			575	13.25	3.25	3.25		12.31	2.31	2.31		18.03	8.03	8.03		Nil	Nil	Nil		Nil	Nil	Nil	
4	90	10	173	9.01	-0.99	0.99		8.4	-1.6	1.60		10.32	0.32	0.32		Nil	Nil	Nil		8.36	-1.64	1.64	
			435	12.45	2.45	2.45	2.32	13.95	3.95	3.95	3.31	11.33	1.33	1.33	1.11	12.67	2.67	2.67	Nil	14.01	4.01	4.01	4.00
			575	8.03	-1.97	1.97		8.04	-1.96	1.96		9.12	-0.88	0.88		Nil	Nil	Nil		Nil	Nil	Nil	
5	75	25	173	26.13	1.13	1.13		24.95	-0.05	0.05		20.09	-4.91	4.91		24.88	-0.12	0.12		27.52	2.52	2.52	
			435	25.63	0.63	0.63	2.48	31.81	6.81	6.81	3.50	36.57	11.57	11.57	8.81	29.01	4.01	4.01	2.75	Nil	Nil	Nil	5.42
			575	30.15	5.15	5.15		29.61	4.61	4.61		33.73	8.73	8.73		30.08	5.08	5.08		35.18	10.18	10.18	
6	75	25	173	25	0	0.00		22.97	-2.03	2.03		25.22	0.22	0.22		23.41	-1.59	1.59		22.88	-2.12	2.12	
			435	28.64	3.64	3.64	4.64	29.41	4.41	4.41	5.21	25.43	0.43	0.43	0.15	28.61	3.61	3.61	3.68	Nil	Nil	Nil	1.90
			575	19.42	-5.58	5.58		19.1	-5.9	5.90		22.03	-2.97	2.97		Nil	Nil	Nil		20.2	-4.8	4.8	
7	25	75	173	72.43	-2.57	2.57		67.17	-7.83	7.83		71.24	-3.76	3.76		68.02	-6.98	6.98		66.81	-8.19	8.19	
			435	79.46	4.46	4.46	5.71	79.34	4.34	4.34	7.10	75.91	0.91	0.91	3.28	79.26	4.26	4.26	6.79	Nil	Nil	Nil	Nil
			575	68.15	-6.85	6.85		66.93	-8.07	8.07		69.58	-5.42	5.42		67.04	-7.96	7.96		Nil	Nil	Nil	
8	25	75	173	73.71	-1.29	1.29		68.67	-6.33	6.33		74.24	-0.76	0.76		68.96	-6.04	6.04		68.69	-6.31	6.31	
			435	78.68	3.68	3.68	4.64	78.18	3.18	3.18	6.18	75.17	0.17	0.17	1.99	78.56	3.56	3.56	6.03	78.38	3.38	3.38	6.85
			575	69.41	-5.59	5.59		66.59	-8.41	8.41		71.36	-3.64	3.64		67.43	-7.57	7.57		Nil	Nil	Nil	
9	10	90	173	90.45	0.45	0.45		83.52	-6.48	6.48		87.18	-2.82	2.82		84.17	-5.83	5.83		83.2	-6.8	6.8	
			435	91.37	1.37	1.37	1.99	91.85	1.85	1.85	4.40	91.75	1.75	1.75	3.28	Nil	Nil	Nil	1.08	91.89	1.89	1.89	6.14
			575	87.56	-2.44	2.44		85.25	-4.75	4.75		85.4	-4.6	4.60		85.7	-4.3	4.3		Nil	Nil	Nil	
10	10	90	173	89.22	-0.78	0.78		82.22	-7.78	7.78		85.29	-4.71	4.71		82.45	-7.55	7.55		82.02	-7.98	7.98	
			435	92.33	2.33	2.33	3.51	92.4	2.4	2.40	5.65	90.47	0.47	0.47	2.67	Nil	Nil	Nil	1.30	92.39	2.39	2.39	5.26
			575	85.33	-4.67	4.67		83.07	-6.93	6.93		86.78	-3.22	3.22		84.29	-5.71	5.71		85.64	-4.36	4.13	

*Difference

‡ Absolute difference

‡ standard deviation within the same run

Nil: below 1% detection threshold