

Title: SYBR®Green qPCR *Salmonella* detection system allowing discrimination at the genus, species and subspecies levels

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Table S2: Reproducibility test of the seven SYBR®Green *Salmonella* spp., *Salmonella enterica* and *Salmonella enterica enterica* detection methods.

		Sample	S.ent.ent. Agona	S.ent.ent. Derbi	S.ent.ent. Frederiksberg	S.ent.ent. London	S.ent.ent. Marseille	S.ent.ent. Muenchen	S.ent.ent. Paratyphi C	S.ent.ent. Poona	S.ent.ent. Typhi	Method Reproducibility standard deviation (s _R)	Uncertainty (99%)
		Copy number	50	20	50	50	100	100	50	20	20		
invA-5	Cq	Average Lab 1	28.35	27.87	27.84	29.50	27.23	27.56	26.70	30.33	29.21	0.894	2.68
		Average Lab 2	29.51	29.40	29.79	30.89	27.87	28.23	27.70	31.17	31.21		
		RSD _R (%)	2.85	3.77	4.79	3.25	1.64	1.71	2.61	1.93	4.68		
		R	2.31	3.02	3.86	2.75	1.26	1.33	1.99	1.66	3.96		
		(y _{iA} -y _{iB}) ²	1.36	2.33	3.81	1.93	0.41	0.45	1.01	0.70	4.00		
	Tm	Average Lab 1	81.00	80.75	80.50	81.00	80.75	81.00	81.00	80.50	80.50	0.313	0.94
		Average Lab 2	80.80	80.40	79.95	80.25	80.60	80.60	80.55	80.25	79.80		
		RSD _R (%)	0.17	0.31	0.48	0.66	0.13	0.35	0.39	0.22	0.62		
		R	0.40	0.69	1.09	1.48	0.30	0.79	0.89	0.49	1.39		
		(y _{iA} -y _{iB}) ²	0.04	0.12	0.30	0.56	0.02	0.16	0.20	0.06	0.49		
rpoD-20	Cq	Average Lab 1	28.72	28.76	28.49	30.48	27.91	28.10	26.97	30.32	29.93	0.803	2.41
		Average Lab 2	29.72	30.31	29.32	31.96	28.72	28.39	28.59	31.31	31.43		
		RSD _R (%)	2.43	3.70	2.04	3.37	2.02	0.73	4.12	2.28	3.46		
		R	1.99	3.06	1.65	2.95	1.60	0.58	3.21	1.97	2.97		
		(y _{iA} -y _{iB}) ²	1.01	2.39	0.69	2.21	0.65	0.08	2.62	0.99	2.25		
	Tm	Average Lab 1	78.00	77.75	78.00	78.00	78.00	78.00	78.00	78.00	78.00	0.440	1.32
		Average Lab 2	77.40	77.25	77.25	76.95	77.40	77.60	77.60	77.40	77.25		
		RSD _R (%)	0.55	0.46	0.68	0.96	0.55	0.36	0.36	0.55	0.68		
		R	1.19	0.99	1.48	2.08	1.19	0.79	0.79	1.19	1.48		
		(y _{iA} -y _{iB}) ²	0.36	0.25	0.56	1.10	0.36	0.16	0.16	0.36	0.56		
iroB-192	Cq	Average Lab 1	27.85	28.04	27.72	29.52	27.15	27.81	26.59	30.63	29.23	0.599	1.80
		Average Lab 2	28.94	28.77	28.65	30.85	27.78	28.63	27.16	31.22	30.28		
		RSD _R (%)	2.71	1.80	2.32	3.11	1.63	2.05	1.51	1.35	2.48		
		R	2.16	1.43	1.83	2.63	1.26	1.62	1.14	1.17	2.07		
		(y _{iA} -y _{iB}) ²	1.19	0.52	0.85	1.76	0.40	0.67	0.33	0.35	1.09		
	Tm	Average Lab 1	79.00	79.25	79.25	79.25	79.25	79.25	79.50	79.25	79.00	0.389	1.17
		Average Lab 2	78.70	78.70	78.55	78.55	78.70	78.70	78.90	78.55	78.55		
		RSD _R (%)	0.27	0.49	0.63	0.63	0.49	0.49	0.54	0.63	0.40		
		R	0.59	1.09	1.39	1.39	1.09	1.09	1.19	1.39	0.89		
		(y _{iA} -y _{iB}) ²	0.09	0.30	0.49	0.49	0.30	0.30	0.36	0.49	0.20		
iroB-12	Cq	Average Lab 1	29.07	29.28	28.53	30.63	28.22	28.71	27.70	31.05	31.39	1.089	3.27
		Average Lab 2	30.46	30.36	30.37	32.90	29.68	30.29	29.07	33.00	32.72		
		RSD _R (%)	3.29	2.57	4.43	5.05	3.57	3.80	3.41	4.31	2.92		
		R	2.74	2.15	3.65	4.49	2.89	3.14	2.71	3.87	2.62		
		(y _{iA} -y _{iB}) ²	1.92	1.18	3.40	5.14	2.14	2.51	1.87	3.82	1.75		
	Tm	Average Lab 1	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00	0.415	1.24
		Average Lab 2	81.50	81.50	81.10	81.10	81.50	81.50	81.40	81.45	81.60		
		RSD _R (%)	0.43	0.43	0.78	0.78	0.43	0.43	0.52	0.48	0.35		
		R	0.99	0.99	1.78	1.78	0.99	0.99	1.19	1.09	0.79		
		(y _{iA} -y _{iB}) ²	0.25	0.25	0.81	0.81	0.25	0.25	0.36	0.30	0.16		
safC-10	Cq	Average Lab 1	27.93	27.78	27.66	29.15	26.91	27.25	26.34	28.88	28.85	1.461	4.38
		Average Lab 2	29.40	29.40	29.43	32.19	28.66	29.11	28.27	32.04	31.15		
		RSD _R (%)	3.62	4.00	4.38	7.01	4.45	4.67	5.00	7.34	5.42		
		R	2.90	3.20	3.50	6.02	3.46	3.69	3.82	6.26	4.55		
		(y _{iA} -y _{iB}) ²	2.15	2.62	3.12	9.26	3.06	3.47	3.72	9.99	5.28		
	Tm	Average Lab 1	75.50	76.00	76.00	75.50	75.75	76.00	76.00	76.00	76.00	0.380	1.14
		Average Lab 2	75.50	75.50	75.10	74.80	75.30	75.30	75.70	75.55	75.40		
		RSD _R (%)	0.00	0.47	0.84	0.66	0.42	0.65	0.28	0.42	0.56		
		R	0.00	0.99	1.78	1.39	0.89	1.39	0.59	0.89	1.19		
		(y _{iA} -y _{iB}) ²	0.00	0.25	0.81	0.49	0.20	0.49	0.09	0.20	0.36		
safC-13	Cq	Average Lab 1	27.37	27.67	27.95	29.34	26.00	27.34	25.94	28.28	29.32	1.593	4.78
		Average Lab 2	29.53	29.74	29.21	31.78	28.74	29.25	28.38	31.79	31.50		
		RSD _R (%)	5.37	5.12	3.11	5.65	7.09	4.78	6.35	8.25	5.08		
		R	4.27	4.12	2.49	4.84	5.44	3.79	4.83	6.94	4.33		
		(y _{iA} -y _{iB}) ²	4.66	4.32	1.58	5.96	7.54	3.66	5.94	12.29	4.78		
	Tm	Average Lab 1	78.00	77.75	78.00	77.75	78.00	77.50	78.00	77.75	78.00	0.491	1.47
		Average Lab 2	77.25	77.40	77.10	76.80	77.10	76.40	77.80	77.80	77.40		
		RSD _R (%)	0.68	0.32	0.82	0.87	0.82	1.01	0.18	0.05	0.55		
		R	1.48	0.69	1.78	1.88	1.78	2.18	0.40	0.10	1.19		
		(y _{iA} -y _{iB}) ²	0.56	0.12	0.81	0.90	0.81	1.21	0.04	0.00	0.36		
STM0296	Cq	Average Lab 1	28.17	27.88	27.91	30.41	27.04	27.33	26.49	29.28	29.50	0.308	0.92
		Average Lab 2	28.21	28.66	28.69	30.41	27.51	27.43	26.66	29.73	29.04		
		RSD _R (%)	0.10	1.95	1.95	0.00	1.22	0.26	0.45	1.08	1.11		
		R	0.08	1.54	1.54	0.00	0.93	0.20	0.34	0.89	0.91		
		(y _{iA} -y _{iB}) ²	0.00	0.61	0.61	0.00	0.22	0.01	0.03	0.20	0.21		
	Tm	Average Lab 1	77.00	76.25	77.00	77.00	77.00	77.25	77.00	77.75	76.75	0.131	0.39
		Average Lab 2	77.15	76.20	76.85	76.70	77.15	77.30	76.85	77.75	77.15		
		RSD _R (%)	0.14	0.05	0.14	0.28	0.14	0.05	0.14	0.00	0.37		
		R	0.30	0.10	0.30	0.59	0.30	0.10	0.30	0.00	0.79		
		(y _{iA} -y _{iB}) ²	0.02	0.00	0.02	0.09	0.02	0.00	0.02	0.00	0.16		