

History of EURL-*Salmonella* interlaboratory comparison studies on the detection of *Salmonella*.

Table 1 History of EURL-*Salmonella* interlaboratory comparison studies on detection of *Salmonella* in **samples from the primary production stage**.

Study Year Reference ¹	Number of samples	RM ²	Actual number of CFU/RM	Matrix		Selective enrichment medium	Plating-out medium
				amount	type		
I 1995 Voogt et al., 1996 RIVM Report 284500003	26 4	STM5 Blank	6 0	No No		RV and SC	BGA and own
II 1996 Voogt et al., 1997 RIVM Report 284500007	15 15 2 1 1	STM100 STM1000 SPan5 STM100 Blank	116 930 5 116 0	1 gram 1 gram No No No	Chicken faeces mixed with Glycerol ³	RV, SC and own	BGA and own
III 1998 Raes et al, 1998 RIVM Report 284500011	14 14 7 14 4 2 5	STM10 STM100 STM100S E100 STM10 SPan5 Blank	11 94 94 95 11 5 0	1 gram 1 gram 1 gram* 1 gram No No No	Chicken faeces mixed with Glycerol ³	RV and own	BGA and own
IV 1999 Raes et al, 2000 RIVM Report 284500014	5 5 5 5 5 3 3 2 2	STM10 STM100 SE100 SE500 Blank STM10 SE100 SPan5 Blank	4 210 60 220 0 5 60 5 0	10 gram 10 gram 10 gram 10 gram 10 gram No No No No	Chicken faeces mixed with Glycerol ³	RV or RVS, MSRV and own	BGA and own
V 2000 Raes et al, 2001 RIVM Report 284500018	5 5 5 5 5 3 3 2 2 20	STM10 STM100 SE100 SE500 Blank STM10 SE100 SPan5 Blank None	4 47 63 450 0 4 63 5 0 -	10 gram 10 gram 10 gram 10 gram 10 gram No No No No 25 gram**	Chicken faeces mixed with Glycerol ³	RV or RVS, MSRV and own	BGA and XLD

Table 1 (continued)

Study Year Reference ¹	Number of samples	RM ²	Actual number of CFU/RM	Matrix		Selective enrichment medium	Plating-out medium
				amount	type		
VI 2002 Korver et al., 2003 RIVM Report 330300001	5	STM10	11	10 gram	Chicken faeces mixed with Glycerol ³	RVS, MSRV, MKTTn and own	BGA, XLD and own
	5	STM100	139	10 gram			
	5	SE100	92	10 gram			
	5	SE500	389	10 gram			
	5	Blank	0	10 gram			
	3	STM10	11	No			
	3	SE100	92	No			
	2	SPan5	5	No			
	2	Blank	0	No			
	20	None	-	25 gram**			
VII 2003 Korver et al., 2005 RIVM Report 330300004	5	STM10	12	10 gram	Chicken faeces mixed with Glycerol ³	RVS, MSRV, MKTTn and own	BGA, XLD and own
	5	STM100	96	10 gram			
	5	SE100	127	10 gram			
	5	SE500	595	10 gram			
	5	Blank	0	10 gram			
	3	STM10	12	No			
	3	SE100	127	No			
	2	SPan5	9	No			
	2	Blank	0	No			
	20	None	-	10 gram**			
VIII 2004 Korver et al., 2005 RIVM Report 330300008	7	STM10	13	10 gram	Chicken faeces mixed with Glycerol ³	MSRV and own	XLD and own
	4	STM100	81	10 gram			
	7	SE100	74	10 gram			
	4	SE500	434	10 gram			
	3	Blank	0	10 gram			
	3	STM10	13	No			
	2	SE100	74	No			
	1	SE500	434	No			
	2	SPan5	7	No			
	2	Blank	0	No			
20	None	-	10 gram**				
IX 2005 Berk et al., 2006 RIVM Report 330300011	5	STM10	9	10 gram	Chicken faeces ⁴	MSRV and own	XLD and own
	5	STM100	86	10 gram			
	5	SE100	122	10 gram			
	5	SE500	441	10 gram			
	5	Blank	0	10 gram			
	3	STM10	9	No			
	2	SE100	86	No			
	1	SE500	441	No			
	2	SPan5	7	No			
	2	Blank	0	No			
10	None	-	10 gram***				

Table 1 (continued)

Study Year	Number of samples	RM ²	Actual number of CFU/RM	Matrix		Selective enrichment medium	Plating-out medium
				amount	type		
X 2006 Kuijpers et al., 2007 RIVM Report 330604004	5	STM10	9	10 gram	Pig faeces ⁴	MSRV and own	XLD and own
	5	STM100	98	10 gram			
	5	SE100	74	10 gram			
	5	SE500	519	10 gram			
	5	Blank	0	10 gram			
	3	STM10	9	No			
	2	SE100	98	No			
	1	SE500	519	No			
	2	SPan5	5	No			
	2	Blank	0	No			
XI 2008 Kuijpers et al., 2008 RIVM Report 330604011	5	STM5	6	10 gram	Chicken faeces ⁴	MSRV and own	XLD and own
	5	STM50	47	10 gram			
	5	SE10	9	10 gram			
	5	SE100	90	10 gram			
	5	Blank	0	10 gram			
	3	STM5	6	No			
	2	SE10	9	No			
	1	SE100	90	No			
	2	SPan5	5	No			
	2	Blank	0	No			
XII 2009 Kuijpers et al., 2009 RIVM Report 330604014	5	STM5	6	10 gram	Chicken faeces ⁴	MSRV and own	XLD and own
	5	STM50	53	10 gram			
	5	SE20	18	10 gram			
	5	SE100	84	10 gram			
	5	Blank	0	10 gram			
	3	STM5	6	No			
	2	SE20	18	No			
	1	SE100	84	No			
	2	SPan5	7	No			
	2	Blank	0	No			
XIII 2010 Kuijpers et al., 2010 RIVM Report 330604018	5	STM5	5	10 gram	Chicken faeces ⁴	MSRV and own	XLD and own
	5	STM50	56	10 gram			
	5	SE20	13	10 gram			
	5	SE100	78	10 gram			
	5	Blank	0	10 gram			
	4	SE20	22	10 gram*			
	2	STM5	8	No			
	2	SE20	13	No			
	1	SE100	78	No			
	1	Blank	0	No			
XIV 2011 Kuijpers and Mooijman, 2011 RIVM Report 330604023	5	STM6	6	25 gram	Chicken faeces ⁴	MSRV and own	XLD and own
	5	STM61	61	25 gram			
	5	SE6	6	25 gram			
	5	SE57	57	25 gram			
	5	Blank	0	25 gram			
	2	STM6	6	No			
	2	SE6	6	No			
	1	SE57	57	No			
	2	Blank	0	No			

Table 1 (continued)

Study Year Reference ¹	Number of samples	RM ²	Actual number of CFU/RM	Matrix		Selective enrichment medium	Plating-out medium
				amount	type		
XV 2012 Kuijpers and Mooijman, 2013 RIVM Report 330604028	5	STM10	6	25 gram	Pig faeces ⁴	MSRV and own	XLD and own
	5	STM58	58	25 gram			
	5	SD6	6	25 gram			
	5	SD37	37	25 gram			
	5	Blank	0	25 gram			
	2	STM10	10	No			
	2	SD6	6	No			
1	SD37	37	No				
2	Blank	0	No				
XVI 2013 Kuijpers and Mooijman, 2014 RIVM Report 330604031	8	STM low	9	10 gram	Boot socks with environmental material (laying hen)	MSRV	XLD and own
	8	STM high	81	10 gram			
	8	Blank	0	10 gram			
	2	STM low	9	No			
	2	STM high	81	No			
2	Blank	0	No				
XVII 2014 Kuijpers and Mooijman, 2015 RIVM Report 2014-0011	6	STM low	14	25 gram	Chicken faeces	MSRV	XLD and own
	6	STM high	67	25 gram			
	6	Blank	0	25 gram			
XVIII 2015 Pol-Hofstad and Mooijman, 2016 RIVM Report 2015-0082	6	STM low	84	25 gram	Pig faeces	MSRV	XLD and own
	6	STM high	530	25 gram			
	6	Blank	0	25 gram			
XIX 2016 Pol-Hofstad and Mooijman, 2017 RIVM Report 2016-0044	6	STM low	11	10 gram	Boot socks with chicken faeces	MSRV	XLD and own
	6	STM high	95	10 gram			
	6	Blank	0	10 gram			

¹ Reports can be found at the EURL-*Salmonella* website: <http://www.eurlsalmonella.eu/Publications>

² In the studies organised from 1995 to 2010, the RMs existed of gelatine capsules containing artificially contaminated milk powder. In the studies organised from 2011 and onwards, the RMs existed of lenticule discs (HPA, UK). In the study organised in 2013, no RM was used but samples were artificially contaminated at the EURL with a diluted culture.

³ Faeces mixed (1:1) with a solution of peptone/glycerol. Final concentration glycerol in the faeces mixture was 15%(v/v).

⁴ Faeces not mixed with any preservation medium.

* =With antibiotics

** =Naturally contaminated chicken faeces with *Salmonella*

*** =Naturally contaminated dust with *Salmonella*

Table 2 EURL-Salmonella interlaboratory comparison study on the detection of Salmonella in **food samples**.

Study Year Reference ¹	Number of samples	RM ²	Actual number of CFU/RM	Matrix		Selective enrichment Medium	Plating-out medium
				amount	type		
I 2006 Kuijpers et al., 2007 RIVM Report 330604003	5	STM10	9	10 gram	Minced beef	RVS, MKTTn, MSRV and own	XLD and own
	5	STM100	98	10 gram			
	5	SE100	74	10 gram			
	5	SE500	519	10 gram			
	5	Blank	0	10 gram			
	3	STM10	9	No			
	2	SE100	98	No			
	1	SE500	519	No			
	2	SPan5	5	No			
2	Blank	0	No				
II 2007 Kuijpers et al., 2008 RIVM Report 330604010	5	STM5	4	10 gram	Minced beef	RVS, MKTTn, MSRV and own	XLD and own
	5	STM50	40	10 gram			
	5	SE10	7	10 gram			
	5	SE100	71	10 gram			
	5	Blank	0	10 gram			
	3	STM5	4	No			
	2	SE10	7	No			
	1	SE100	71	No			
	2	SPan5	7	No			
2	Blank	0	No				
III 2009 Kuijpers et al., 2010 RIVM Report 330604017	5	STM5	6	10 gram	Minced chicken meat	RVS, MKTTn, MSRV and own	XLD and own
	5	STM50	54	10 gram			
	5	SE20	12	10 gram			
	5	SE100	50	10 gram			
	5	Blank	0	10 gram			
	3	STM5	6	No			
	2	SE20	12	No			
	1	SE100	50	No			
	2	SPan5	6	No			
2	Blank	0	No				
IV 2010 Kuijpers et al., 2011 RIVM Report 330604020	8	STM5	6	25 gram	Minced pork/beef meat	RVS, MKTTn, MSRV and own	XLD and own
	8	STM50	55	25 gram			
	8	Blank	0	25 gram			
	3	STM5	6	No			
	1	STM50	55	No			
	1	Blank	0	No			

Table 2 (continued)

Study Year Reference ¹	Number of samples	RM ²	Actual number of CFU/RM	Matrix		Selective enrichment Medium	Plating-out medium
				amount	type		
V 2011 Kuijpers et al., 2012 RIVM Report 330604025	5 5 5 5 5 2 2 1 2	STM6 STM61 SE8 SE51 Blank STM6 SE8 SE51 Blank	6 61 8 51 0 6 8 51 0	25 gram 25 gram 25 gram 25 gram 25 gram No No No No	Minced pork/beef meat	RVS, MKTTn, MSRV and own	XLD and own
VI 2013 Kuijpers et al., 2014 RIVM Report 2014-0010	6 6 6	SI low SI high Blank	11 104 0	25 gram 25 gram 25 gram	Minced chicken meat	RVS, MKTTn, MSRV	XLD and own
VII 2015 Kuijpers et al., RIVM Report 2016-0042	6 6 6	SE low SE high Blank	21 101 0	25 gram 25 gram 25 gram	Whole liquid egg	MKTTn and RVS or/and MSRV	XLD and own
VIII 2016 Kuijpers et al., RIVM Report In prep.	6 6 6	SSt low SSt high Blank	16 73 0	25 gram 25 gram 25 gram	Minced chicken meat	MKTTn and RVS or/and MSRV	XLD and own

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² In the studies organised from 1995 to 2010, the RMs existed of gelatine capsules containing artificially contaminated milk powder. In the studies organised from 2011 and onwards, the RMs existed of lenticule discs (HPA, UK). In the study organised in 2013, no RM was used but samples were artificially contaminated at the EURL with a diluted culture.

Table 3 EURL-Salmonella interlaboratory comparison study on the detection of Salmonella in **animal feed samples**.

Study Year	Number of samples	RM ²	Actual number of CFU/RM	Matrix		Selective enrichment medium	Plating-out medium
Reference ¹				amount	type		
I 2008	5	STM5	5	25 gram	Chicken feed (mixed grains)	RVS, MKTTn, MSRV and own	XLD and own
	5	STM50	43	25 gram			
	5	SE20	15	25 gram			
	5	SE100	48	25 gram			
	5	Blank	0	25 gram			
Kuijpers et al., 2009	3	STM5	5	No			
RIVM Report 330604012	2	SE20	15	No			
	1	SE100	48	No			
	2	SPan5	5	No			
	2	Blank	0	No			
II 2012	6	SE8	8	25 gram	Chicken feed (Poultry feed, mixed meal for laying hens)	RVS, MKTTn, MSRV and own	XLD and own
	6	SE50	50	25 gram			
	6	Blank	0	25 gram			
Kuijpers et al., 2013	2	SE8	8	No			
RIVM Report 330604029	1	SE50	50	No			
	2	Blank	0	No			
III 2014	6	SSE low	20	25 gram	Chicken feed	RVS, MKTTn, MSRV	XLD and own
	6	SSE high	61	25 gram			
	6	Blank	0	25 gram			
Kuijpers et al., RIVM Report 2015-0080							

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² In the studies organised from 1995 to 2010, the RMs existed of gelatine capsules containing artificially contaminated milk powder. In the studies organised from 2011 and onwards, the RMs existed of lenticule discs (HPA, UK).