

**HORIZONTAL-HYG**  
**Hygienic microbiological parameters**

*E. coli* and *Salmonella* spp. methods  
(WP 2.2)

<i>E. coli</i> methods evaluated during the Suitability Study	prEN 15214-1 membrane filtration	prEN 15214-2 microtiter plate	prEN 15214-3 MPN macromethod	Report reference
Duration days	3	3	3/4	Annexes 1-3
Sample weight (g wet)	10	25	20	
Dilution	9	6 (16 wells /dilution)	7 (3 tubes /dilution)	
Relative recovery	15-100%	100%	9-100%	Table 10, page 22
Limit of detection (5%) (/g of wet weight)	27 cfu	67,4 MPN	9 MPN	Table 11, page 23
Upper limit of quantification	10 E11	10 E7	10 E6	
dispersion U <sup>2</sup>	<0,05	0,1	0,8	§5,3,3, page 24
Intrinsec incertitude	lower	closed to the lower	higher	
Equivalent time technician	49 min	16 min	38 min	-
Cost consumables (euros)	20,00 €	9,00 €	9,00 €	

<i>Salmonella</i> spp. methods evaluated during the Suitability Study	prEN 15215-1 membrane filtration	prEN 15215-2 MPN macromethod	prEN 15215-3 Presence/Absence	Report reference
Duration days	4	5	5	Annexes 1-3
Sample weight (g wet)	25	25	50	
Dilution	9	5	-	
Relative recovery	100%	0,01 to 100%	N/A	Table 14, page 27
Limit of detection (5%) (/g of wet weight)	2,7	0,9	N/A	Table 15, page 28
Upper limit of quantification	10 E10	10 E4 - 10 E5	N/A	
dispersion U <sup>2</sup>	<0,05	0,8	N/A	§5,4,3, page 28
Intrinsec incertitude	reduced	highly greater	N/A	
Toxicity Safety issue	NO	use of selenite	NO	
Equivalent time technician	1h09	1h05	20 min	-
Cost consumables euros	14,00 €	29,00 €	3,50 €	