



**SIMUL  
QPCR**

# *SALMONELLA* SPECIES Flowchart

## SAMPLE & EREB ENRICHMENT

**\*Harmonized  
with Top 7**



**Raw Beef Trim**  
375 g  
1 L ± 50 mL



**Raw Ground Beef**  
375 g  
1 L ± 50 mL



Incubate 10-18 hours at 42°C ± 1°C  
(12-18 hours if pooled lysis)

## SAMPLE & BPW ENRICHMENT



**RTE Cooked Poultry**  
375 g  
1 L ± 50 mL



**Raw Ground Poultry**  
375 g  
1 L ± 50 mL



**Dry Pet Food**  
375 g  
2 L ± 100 mL



**Poultry Carcass/  
Parts Rinse**  
30 mL  
30 mL ± 5 mL



**Environmental  
Sponge**  
90 mL ± 10 mL



**Frankfurter/  
Sausage**  
25 g  
225 mL ± 15 mL



**Peanut Butter**  
25 g  
225 mL ± 15 mL



**Pasteurized  
Liquid Eggs**  
100 g  
900 mL ± 18 mL



**Environmental  
Swab**  
9 mL ± 1 mL

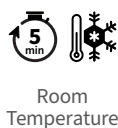
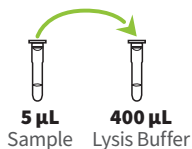


**AFD MEMP  
Reserve Swab**  
9 mL ± 1 mL

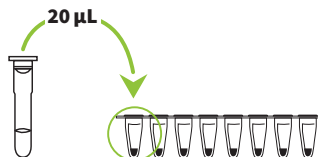


Incubate for 16-20 hours at 35°C ± 1°C

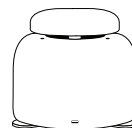
## SAMPLE LYSIS



## SET-UP SIMUL-QPCR ASSAY



Place Strips in  
PCR and run



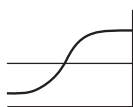
## REVIEW SIMUL-QPCR ASSAY

**Results** within 1 hour

**Negative**



**Positive**



## AOAC PTM WORKFLOW CONCLUSION

WORKFLOW	RESULTS	TARGET INTERPRETATION
	<b>SIMUL-qPCR ASSAY <i>Salmonella</i></b>	<b><i>Salmonella</i> spp.</b>
<b><i>Salmonella</i> spp.</b>	No C <sub>q</sub>	Negative
	C <sub>q</sub>	Positive

C<sub>q</sub> = C<sub>q</sub> with typical amplification / sigmoidal curve



**APPLIED FOOD**  
DIAGNOSTICS