





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

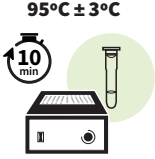


Incubate for 16-20 hours at 35°C ± 1°C

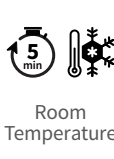
SAMPLE LYSIS


**5 µL
Sample**


**400 µL
Lysis Buffer**




95°C ± 3°C
10 min

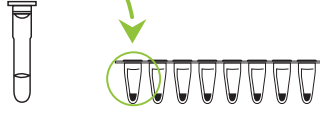


5 min
Room
Temperature

OPTIONAL - Pooled Lysate
Pool up to 10 lysates by combining 5 µL of each lysate and pipette mix

SET-UP SIMUL-QPCR ASSAY


20 µL

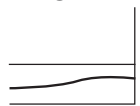


Place Strips
in PCR and

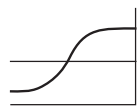
REVIEW SIMUL-QPCR ASSAY

Results within 1 hour

Negative



Positive



AOAC PTM WORKFLOW CONCLUSION

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

C_q = C_q with typical amplification / sigmoidal curve

