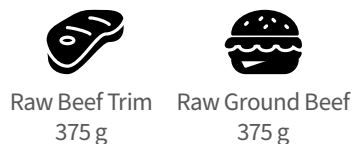
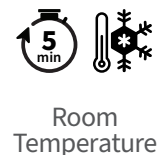
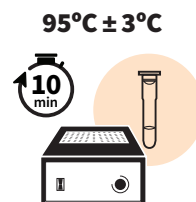
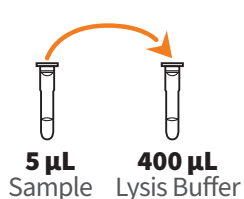


## SAMPLE & EREB ENRICHMENT

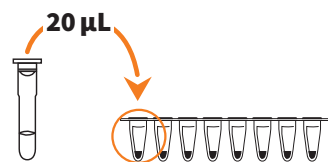


Enrich with 1 L  $\pm$  50 mL EREB  
Incubate at  $42^{\circ}\text{C} \pm 1^{\circ}\text{C}$  for 10-18 hours  
(12-18 hours if pooled lysis)

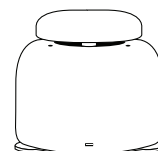
## SAMPLE LYSIS



## SET-UP SIMUL-QPCR ASSAY

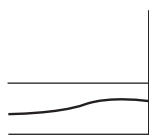


Place strips in  
PCR and run

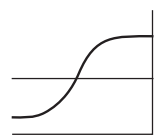


## REVIEW SIMUL-QPCR ASSAY

Results within 1 hour



No  $C_q$   
=  
**Negative**



$C_q$  with typical  
amplification /  
sigmoidal curve  
=  
**Positive**

## AOAC PTM WORKFLOW CONCLUSION

|                                                          | TARGET INTERPRETATION  |
|----------------------------------------------------------|------------------------|
| <b><i>E. coli</i> O157:H7 Assay</b>                      | <i>E. coli</i> O157:H7 |
| <b>Shiga Toxin (stx) and Intimin (eae) Assay</b>         | Shiga Toxin (stx)      |
|                                                          | Intimin (eae)          |
| <b><i>E. coli</i> O26 and <i>E. coli</i> O103 Assay</b>  | <i>E. coli</i> O26     |
|                                                          | <i>E. coli</i> O103    |
| <b><i>E. coli</i> O111 and <i>E. coli</i> O145 Assay</b> | <i>E. coli</i> O111    |
|                                                          | <i>E. coli</i> O145    |
| <b><i>E. coli</i> O45 and <i>E. coli</i> O121 Assay</b>  | <i>E. coli</i> O45     |
|                                                          | <i>E. coli</i> O121    |