

## AOAC-RI Validation for Comminuted Chicken and Turkey

The SalQuant<sup>™</sup> method allows the user to obtain the amount of *Salmonella* in raw comminuted chicken and turkey within 10 h (8 h enrichment plus 2 h process/PCR time), compared to completing the USDA/FSIS MLG MPN 2.05 reference method which can take up to 5 days and requires more labor and supplies.

### Validation Method

SalQuant<sup>™</sup> was compared to MLG MPN for both comminuted chicken and turkey by targeting 3 inoculation levels plus negative controls, with 5 biological replicates at each level:

- Low (0.0 to 1.0 Log<sub>10</sub> CFU/g),
- Medium (1.0 to 2.0 Log<sub>10</sub> CFU/g)
- High (2.0 to 3.0 Log<sub>10</sub> CFU/g)
- Negative Control (non-inoculated samples)  
(not shown in data below, all negative for across methods)

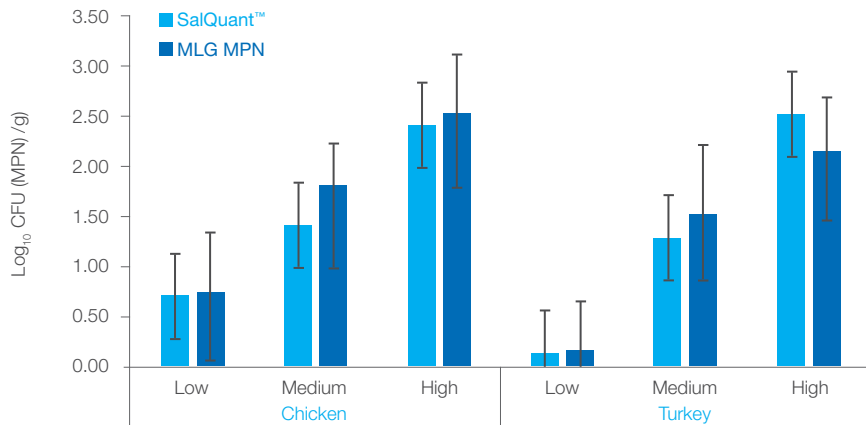
Methods were statistically compared at each level for significant differences at alpha 0.10.

### Results Summary

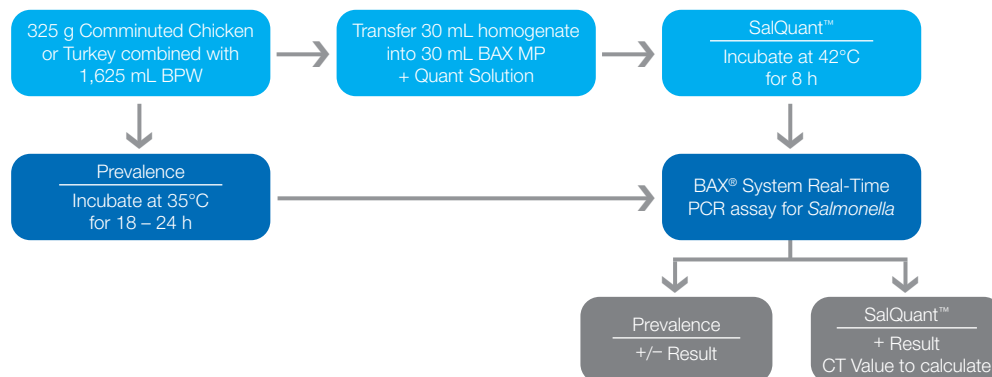
#### Criteria Met for Validation

- For all comparisons, SalQuant<sup>™</sup> vs MLG MPN, all mean differences between methods were less than 0.50 Log CFU/g for both comminuted chicken and turkey.

Mean differences between SalQuant<sup>™</sup> and MLG MPN for comminuted chicken and turkey.  
Error bars = standard error of the mean.



### Validated Protocol for Commercial Use



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