



## VIDAS®UP *Salmonella* (SPT) – AOAC 2013.01 (or AOAC 071101)

### SCOPE

This method is applicable to:

- Raw meats, meat products and carcass swabs.

### PRINCIPLES

Detection of *Salmonella* is based on enzyme-linked fluorescent immunoassay using a novel recombinant phage protein-based technology for used with the automated VIDAS instrument. The detection protocol can be broken down as follows:

#### ▪ **Enrichment**

Sample (25 g) is enriched in pre-warmed (room temperature or  $42 \pm 1^\circ\text{C}$  for large volumes) 225 mL buffered peptone water (BPW) supplemented with *Salmonella* supplement (1 mL/225 mL, or 400  $\mu\text{L}$ /100 mL) and incubated at  $42 \pm 1^\circ\text{C}$  for 18 - 24 h. For carcass sponges, buffered peptone water is added to the moistened sponge to bring the total volume to 60-100 mL and the sample incubated at  $42 \pm 1^\circ\text{C}$  for 18 - 24 h. In the case of sponges BPW need not be warmed to room temperature before being used to re-hydrate the sponge, for all subsequent additions BPW should be warmed to room temperature.

For 375g sample weights 1125 mL buffered peptone water pre-warmed at  $42 \pm 1^\circ\text{C}$  is added to 375g sample and then 5 mL *Salmonella* supplement is added. The bag is then incubated at  $42 \pm 1^\circ\text{C}$  for 22-26 hours.

#### ▪ **Enzyme immunoassay**

VIDAS SPT test is performed using a portion of boiled post-enrichment broth. The assay is automated and carried out in the VIDAS instrument following the manufacturer's instructions.

#### ▪ **Cultural confirmation**

All *Salmonella* positive samples should be confirmed using enrichment broth following AS 5013.10. Confirmation carried out at an 'off-site' laboratory must be from retained BPW enrichment.

**CHECKLIST**

<b>Enrichment</b>	Is BPW + <i>Salmonella</i> Supplement used for enrichment?	_____
	Is BPW warmed prior to use (room temperature or 42°C)?	_____
	Is the correct amount of <i>Salmonella</i> supplement added to BPW?	_____
	Is the supplement homogenized prior to sampling?	_____
	Is a positive control run with each batch of samples analysed?	_____
	Are reference cultures inoculated into primary enrichment broth at a level of 10 to 100 cells?	_____
	Is pre-enrichment done at 42 ± 1°C for 18 - 24h or 22-26 hours in the case of 375g samples?	_____
<b>Enzyme immunoassay</b>	Are the manufacturer's instructions available?	_____
	Are kits stored at 2-8 °C when not in use?	_____
<b>Cultural confirmation</b> (if applicable)	Is <i>Salmonella</i> confirmed from BPW?	_____
	If an external laboratory is used is it department approved?	_____
	Is BPW supplied to off-site laboratories for confirmation following AS 5013.10?	_____
	Is <i>Salmonella</i> confirmed using AS 5013.10 (with appropriate selective agar plates)?	_____