

VIDAS[®] EASY Salmonella method - AFNOR BIO 12/16 – 09/05

SCOPE

This method is applicable to:

- Raw meats, meat products and carcass swabs.

PRINCIPLES

Detection of *Salmonella* is based on enzyme-linked fluorescent immunoassay performed in an automated VIDAS instrument. Following enrichment (see below) *Salmonella* is detected in boiled broth by specific monoclonal antibodies. A fluorescent marker is then added and *Salmonella* detected automatically by the VIDAS machine. The detection protocol can be broken down as follows:

Pre-enrichment

Sample is diluted 1:10 in pre-warmed (room temperature or 37°C for large volumes) buffered peptone water and pre-enriched at 37°C for 16 - 22 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 37°C for 16 - 22 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.

Enrichment

Culture from pre-enrichment broth is inoculated into SX2 broth and incubated at 41.5 °C for 22 - 26 h.

Enzyme immunoassay

Salmonella is assayed by testing 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 the stored non heated SX2 broth following AS 5013.10. Confirmation carried out at an 'off-site' laboratory must be from retained SX2 enrichment.

Pre- enrichment	Is the buffered peptone water used for pre- enrichment?	
	Is BPW warmed prior to use (room temperature	
	Is the correct amount of enrichment broth used	
	Is a positive control run with each batch of	
	Are reference cultures inoculated into primary enrichment broth at a level of 10 to 100 cells?	
	Is pre-enrichment done at 37°C for 16 - 22h?	
Enrichment	Is enrichment carried out in SX2 broth?	
	Is SX2 broth incubated at 41.5°C for 22- 26h?	
Enzyme immunoassay	Are the manufacturer's instructions available?	
	Are kites stored at 2-8 °C when not in use?	
Cultural confirmation	Is Salmonella confirmed from SX2 Broth?	
(if applicable)	If an external laboratory is used is it department	
	SX2 enrichment should be supplied to off-site laboratories for confirmation following AS 5013.10	
	Are <i>Salmonella</i> confirmed using AS 5013.10 (with appropriate selective agar plates)?	

CHECKLIST