

# NordVal Certificate

Issued for:	TRANSIA™ PLATE <i>Salmonella</i> Gold
NordVal No:	001
First approval date:	14 June 2001
Renewal date:	1 June 2009
Valid until:	1 June 2011

## TRANSIA™ PLATE *Salmonella* Gold

Manufactured by:  
BioControl  
12822 SE 32<sup>nd</sup> Street,  
Bellevue, WA 98005,  
USA.

Supplied by:  
BioControl  
12822 SE 32<sup>nd</sup> Street,  
Bellevue, WA 98005,  
USA.

fulfils the requirements of the NordVal validation protocol. The TRANSIA™ PLATE *Salmonella* Gold performance has been compared to the following reference method:

- √ EN ISO 6579:2002: Microbiology of food and animal feeding stuffs -- Horizontal method for the detection of *Salmonella* spp.

The results document no statistical difference in the performances between the methods.

Date: 28.05.2009

Yours sincerely

  
Sven Qvist  
Chair of NordVal

  
Hilde Skår Norli  
NMKL Secretary General

## PRINCIPLE OF THE METHOD

TRANSIA™ PLATE *Salmonella* Gold is an Enzyme Linked Immuno Sorbent Assay (ELISA) based on a sandwich-type reaction. The two step enrichment protocol includes a pre-enrichment in buffered peptone water followed by a selective enrichment in Rappaport Vassiliadis soya broth (RVS). The detection step is then made in a microplate coated with antibodies specific to *Salmonella* spp. The reading is made with a microplate reader at 450 nm.

## FIELD OF APPLICATION

The method has been tested on foods, feeds and environmental samples.

## COMPARISON STUDY

### COMPLIANCE BETWEEN TRANSIA™ PLATE SALMONELLA GOLD AND THE REFERENCE METHOD

A comparison study was carried out both by AFNOR and AOAC Research Institute on a number of products both naturally and artificially contaminated. The following results are obtained:

**Relative accuracy:** 99.8%  
**Relative sensitivity:** 99.5%  
**Relative specificity:** 100%  
**Detection level:** 1-10 cfu/g/ 25g

**Selectivity:** Inclusivity: 50 strains of *Salmonella* were detected out of 50 tested.  
 Exclusivity: Of the 30 non-*Salmonella* strains included, no cross reaction was detected.

## COLLABORATIVE STUDY RESULTS

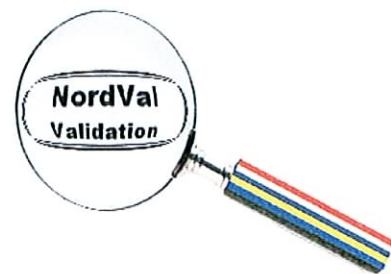
The collaborative study was conducted in 2004 with 10 participating laboratories. The analyses were carried out on samples of pasteurized milk, artificially contaminated with a *Salmonella thyphimurium* strain at three levels of contamination. The following results were obtained:

Contamination level	No of results	No of negative results		No of positive results	
		REF	ALT	REF	ALT
0	80	80	80	0	0
3 cells / 25 mL	80	4	5	76	75
30 cells / 25 mL	80	0	0	80	80

**Relative accuracy:** 99.6%  
**Relative sensitivity:** 96.9%  
**Relative specificity:** 100%  
**The degree of agreement, kappa:** 0.92 (a kappa of  $\geq 0.80$  is satisfactory)



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## CONCLUSION

According to the comparison study and the collaborative study, no statistical differences were found between the alternative method and the reference method.