

# S&A REAGENTS LAB LTD.,PART.

4 Soi Latphraowanghin 28 , Latphrao-wanghin Rd.,  
Lat Phrao, Bangkok 10230, Thailand.



Tel. (+662) 538-8622

Fax. (+662) 931-6098

e-mail : saplab1990@gmail.com

www.serotest-thailand.com



## Salmonella O Group D (Somatic 9,12) Antigen for Slide Test

This antigen is used for the detection of *Salmonella* Somatic 9,12 (O : 9,12) in blood or serum of chickens and turkeys by the slide agglutination test.

When blood or serum is mixed with the test antigen, agglutination occurs in the presence of specific antibodies. The staining of the test antigen renders this process more easily visible.

The test should be used as a flock test. Antibodies due to infections caused by other *Salmonella* with O-antigens, equal to those of *Salmonella* Pullorum (like *Salmonella* Enteritidis) may be detected by the test as well. As the antigen is not used in vivo, there is no requirement for a with-holding period.

Packing size : 25 ml vials (approx. 500 tests).

Storage condition : 2-8°C

Do not freeze. Protect from light.

Materials: - A cleaned well slide.  
- A small stirring rod.

### Test procedure

The test should be carried out between 20°C and 25°C. A drop of serum of approximately equal size is added to a drop of the well-shaken antigen. The drops are then mixed with a stirring rod. By rocking the slide a positive agglutination is stimulated. The reaction should be carried out with fresh serum. The serum should not be frozen as this may lead to non-specific reactions.

### Test interpretation

A positive reaction is indicated by agglutination within 2 minutes after mixing. This agglutination reaction may be delayed at temperatures below +2°C.

Further information :

- Do not use coagulated blood.
- The stirring rod should be rinsed after each sample.

### Disposal

This is a biological product which requires disinfection after use. After completion of the test the agglutination plates should be soaked for 5 minutes in 70% alcohol or 750 ppm iodophor , then washed in water.

### References:

1. Huddleson, J.F., and Abell, E., J. 1928 Infect. Dis., 42:242
2. Alex C. Sonnenwirth. Leonard Jarett 1980. Gradwohl's Clinical Laboratory Methods and Diagnosis, Volume 2, Eighth Edition. The C.V. Mosby Company, Saint Louis.
3. Ewing, W.H. 1986. Edwards and Ewing's Identification of *Enterobacteriaceae*, 4<sup>th</sup> edition. Elsevier Science Publishing Co., Inc., New York.

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