



.....a vision to serve mankind™

Advantage **Typhi IgM & IgG Card**

Rapid visual test for the differential and simultaneous detection of *S. typhi* IgM & IgG antibodies in Human Serum / Plasma

- Rapid qualitative test for differential detection of *Salmonella typhi* (*S. typhi*) IgM and IgG Antibodies in Human Serum / Plasma
- Determination of both recent and past infection
- Results within 20 minutes
- Bio-hazard free, fully covered, see-through Device
- Simple & Easy to use Test Procedure
- No Instruments required
- Long Shelf Life: 30 months at 2-30°C
- Convenient Packsize: 5 Tests, 10 Tests, 25 Tests & 50 Tests

Higher Sensitivity & Specificity:

For IgM:

Sensitivity: 100%*

Specificity: 100%*

For IgG:

Sensitivity: 100%*

Specificity: 100%*

* The performance with regard to sensitivity & specificity was checked in comparison of commercially available Kit



TYPHOID: An overview

Typhoid fever, is a common worldwide illness, transmitted by the ingestion of food or water contaminated with the feces of an infected person, which contain the bacterium *Salmonella enterica*, serovar Typhi. This fever received various names, such as gastric fever, abdominal typhus, infantile remittent fever, slow fever, nervous fever, pythogenic fever, etc. The name of "typhoid" was given by Louis in 1829, as a derivative from typhus.

Typhoid is a communicable disease and it is transmitted in many ways in India. The main source of fever is polluted water. Unhygienic conditions in surroundings are mainly responsible for the prevalent infection.

OMP: A Superior Marker in Typhoid Diagnosis

The porin OMP (Outer Membrane Protein) of *S. typhi* is synthesized into the outer membrane of bacterium. OMP is expressed not only under free living conditions, but also during infection, since the osmolarity of the human serum is equivalent to high salt conditions maintained in the laboratory (Nikaido and Vaara 1985). These reasons suggest that OMP is a candidate antigen for diagnostics. Identification and synthesis of specific antigenic sites of *S. typhi* porin OMP is of help in early diagnosis of typhoid. Advantages of OMP are:

- OMP Antigens (especially the porins) is more Immunogenic than the LPS antigen.
- The level of antibodies (both IgM & IgG) generated against *S. typhi* OMP Antigen is significantly higher as generated against the LPS Antigen of *S. typhi*.
- OMPs are more stable than LPS Antigens and remains in the Blood for longer period of time.

ImmUNE ReSPONSE TO SALMONELLA ANTIGENS*

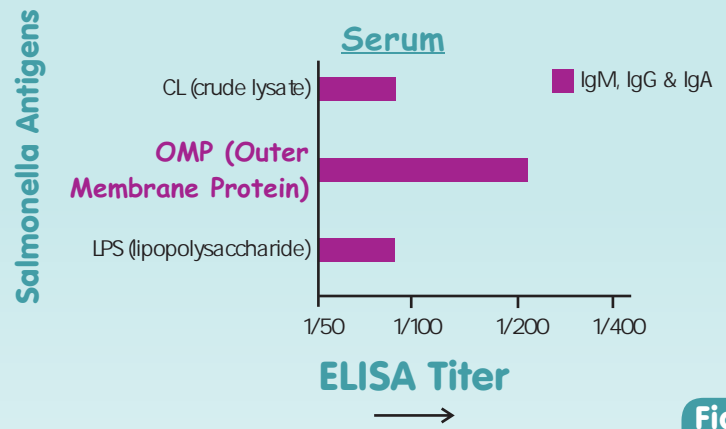


Fig.1

Fig.1 : Antibodies response (titer) to Salmonella antigens in serum (by ELISA).

*Source : <http://www.nih.go.jp/JJID/60/220.pdf>

Test Procedure

STEP-1

Add 35 µl of serum / Plasma sample using sample dropper into the sample well

STEP-2

Add 1 drop of Assay Buffer to the sample well

STEP-3

Allow reaction to occur during the next 20 minutes and **READ RESULTS**

Result Interpretation

Reactive for both *S. typhi* IgM & IgG antibodies

Reactive for *S. typhi* IgM antibodies

Reactive for *S. typhi* IgG antibodies

Non-Reactive for *S. typhi* antibodies

Invalid Test & re-run the test



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