SALMONELLA PARATYPHI CH SLIDE

Determination of antibodies associated to salmonella paraTyphi CH by means of coloured bacterial suspension on slide

TEST SUMMARY
Slide and tube agglutination test for the qualitative and semi-quantitative detection of antibodies associated to Salmonella paraTyphi CH infections.

Samples containing the specific antibody cause the agglutination of inactivated bacteria present in suspension. This intravitral coloring allows an easier reading of the formation of the agglutinates.

High levels of agglutinating antibodies are indicative of infection by these microorganisms.

SAMPLES

- Fresh clear serum. Stability 7 days at 2-8°C or 3 months at -30°C.
- Do not freeze repeatedly.
- The samples with presence of fibrin should be centrifuged before testing. Do not use highly hemolyzed or lipemic samples.
- Bring to room temperature before analysis.

REAGENTS

- Suspension: Inactivated and intravitral colored bacterial suspension in glycine buffer pH 8.2: preservatives.

MATERIALS REQUIRED BUT NOT SUPPLIED

- Positive Control serum and negative control.

PRECAUTIONS

The reagent may contain non-reactive components and preservatives of various kinds. For precautionary purposes, however, contact with skin and ingestion should be avoided. Use the normal precautions for behavior in the laboratory.

REAGENTS PREPARATION

Reagents are ready to use. Bacterial suspension has to be carefully resuspended shaking it more times for inversion.

PROCEDURE

SLIDE AGGLUTINATION

1. Mix using a disposable stirrer, spread homogeneously over the entire area enclosed by the ring and shake it with a rotary motion or with a mechanical stirrer at 80-100 rpm, for 1 minute.

SLIDE AGGLUTINATION (TITRATION)

- Prepare a row of tube test for each sample as follows:
  - Sample 1/20
  - Sample 1/40
  - Sample 1/80
  - Sample 1/160
  - Sample 1/320
  - Sample 1/640

2. Prepare 1 tube for Positive Control and 1 tube for Negative Control with 0.1 ml of control + 0.9 ml of NaCl 9 g/L each.
3. Add 50 µl (1 gtt) of suspension to each tube.
4. Mix thoroughly and incubate tube test at 37°C for 24 h.

RESULTS INTERPRETATION

SLIDE AGGLUTINATION

Examine macroscopically the absence or presence of agglutination after 1 minute by comparing the results with the Positive and Negative control.

Agglutination into time established means positivity. Homogeneous suspension with no visible agglutination is negative.

For each positive result it is advisable to confirm the titre with the test-tube titration.

TUBE AGGLUTINATION

Examine macroscopically the absence or presence of agglutination by comparing the results with the tubes of Positive and Negative control.

Flagellar reaction (H) has a characteristic loose, flocculent agglutination.

Partial agglutination is a sign of positive reaction.

The title of the serum examined is due to the most higher dilution in which is showed a feeble positivity.

REFERENCE VALUES

For Flagellar Antigens (H) Title ≥ 1/160 indicate a recent infection.

In case of a positive result with a low titre, it is significant for the diagnosis verify the increase of titre between samples taken at a distance of days.

If the titre remains unchanged it may be a previous contact or previous vaccination.

The single positive result has less significance than the demonstration of a rising or falling antibodies titre as evidence of infection.

The level of “normal” agglutinins to these organisms varies in different countries and different communities. It is recommended that each laboratory establish its own reference range.

NOTE

- In some geographical areas with a high prevalence of febrile antibodies, it is recommended to dilute the sample 1/4 with NaCl 9 g/L before to perform the assay.
- As with any diagnostic procedure, if the results are incompatible with the clinical presentation, the physician should evaluate the data obtained using this test by comparing them with other clinical information.
- In vitro diagnostic use only.

CALIBRATION/QUALITY CONTROL

There is not any International Reference for the sensitivity standardization of these reagents. For this reason, LTA uses an internal control that contains animal serum with antibodies anti-Salmonellae, and certified with commercial reagents of certified quality.

Use of control sera is recommended as reference; the method sensitivity decrease at low temperature. Better results will be obtained at higher temperature up to 10°C.

Interference

No interference was observed by the presence of:
- hemoglobin ≤ 1000 mg/dl
- bilirubin ≤ 20 mg/dl
- lipids ≤ 1000 mg/dl
- rheumatic factor ≤ 300 U/ml

Recent infection, immunodepression or antibiotic treatment can do false negativity.

WASTE DISPOSAL

Product is intended for professional laboratories. Waste products must be handled as per relevant security cards and local regulations.

PACKAGING

- CODE B500710
  - Suspension, S. paratyphi CH slide

REFERENCES


MANUFACTURER

LTA s.r.l.
Via Milano 15/F
20060 Bussoro (Milano) - ITALY

tel. +39 02 95409034
fax. +39 02 95334185

website: http://www.LTAonline.it

SYMBOLS

- IVD Only for IVD use
- LOT List of manufacturing
- REF Code number
- Storage temperature interval
- Expiration date (year, month)
- Warning, read enclosed documents
- Read the directions
- Biological risk

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