

## BioMed-Widal

### Salmonella Antibody Assays

REF: WD400100 (4x5 ml)



#### INTENDED FOR USE:

Rapid Slide test for the qualitative and semi-quantitative determination of specific antibodies present in serum against Salmonella typhi O & H, Salmonella paratyphi A-H & B-H antigens.

#### PRINCIPLE:

Widal slide test is based on an immunologic reaction between antibodies present in the serum of patient exposed to the Salmonella typhi O & H, Salmonella paratyphi A-H & B-H and their counterpart febrile antigens in the suspension.

#### SPECIMEN COLLECTION:

Clear fresh serum sample is required and not exposed to elevated temperature.

Discard Hemolized or contaminated sample.

The serum specimen should be stored refrigerated. If testing is to be prolonged in excess of 24 hours, serum should be frozen

#### REAGENT COMPOSITIONS :

Suspension Reagents:

- Salmonella typhi O Ag suspension
- Salmonella typhi H Ag suspension
- Salmonella paratyphi A-H Ag suspension
- Salmonella paratyphi B-H Ag suspension

Positive Control Serum: is prepared from a stabilized human serum pool show greater agglutination at titer more than 1/80.

All components contain 0.1% sodium azide as preservative.

#### PACKAGE: Collection and storage.

All reagents are stable up to the expiration date specified when stored at 2 - 8°C. Do Not Freeze. Avoid extended exposure of reagents to elevated temperatures.

Expiration date is specified on the kit label. Biological indication of product instability is evidence by inappropriate reaction of the latex reagent with the corresponding positive control serum

#### PRECAUTIONS & WARNING :

Reagent may contain some non-reactive and preservative components. It is suggested to handle carefully it, avoiding contact with skin and swallow.

#### REAGENT PREPARATION & STABILITY :

Allow all reagents to room temperature before use.

Use clean and dry glassware.

Shake antigen vials well before use to make a homogenous suspension.

For greater proficiency in test interpretation, always include positive control in each test protocol.

#### REQUIRED MATERIALS NOT PROVIDED:

Materials supplied with WIDAL kit,

- Antigens suspension reagents
- Positive control serum.
- 6-cell glass slide.
- Dispensing pipettes.

Material required, but not provided,

- Pipettes (serological)
- Lab rotator.
- Laboratory timer.

#### PROCEDURE:

1. Bring all reagents and serum samples to room temperature.
2. Using pipette, add (20 µl) of the patient serum onto 4 cells of the glass slide.
3. Shake antigen vials gently, expel contents of dropper and refill, then place one drop (50 µl) of each 4 antigens suspension (O, H, A-H, B-H) to respective cells of the glass slide.
4. Mix both together with the flat end of the dispensing pipettes.
5. Rock the slide gently for one minute. A rotary shaker may also be used for rocking.
6. Observe results at the end of one minute under high intensity light

WIDAL Kit is also suitable for titration purposes.

1. Prepare 1:2, 1:4, 1:8, or as needed dilutions of the specimen using physiological saline.
2. Carry-out qualitative procedures on each dilution.
3. Final end point is determined by the highest dilution, which is positive.
4. Multiply the sensitivity of the test by the highest dilution with positive agglutination to calculate the titer of the sample.

WIDAL antigens are specifically designed for use in detecting febrile antibodies with increased sensitivity, specificity and overall readability. This new Widal antigen series employs a unique system of dyes making the entire febrile profile user friendly.

#### WASTE DISPOSAL:

The disposal of the product must be in accordance with local regulation concerning waste disposal.

#### QUALITY CONTROL:

The use of positive control tested in parallel with unknown test serum samples is recommended. The positive control sera have a titer of 1:80 or greater with homologous antigens.

#### Result

Negative result: Complete absence of agglutination and a clear suspension indicates negative result.

Positive result: Agglutination within one minute is reported as reactive or positive result.

Drying of the mixture may lead to erroneous results. The slide, therefore, should be examined for no longer than 2 minutes after step 4 begins.

#### Same as described in Qualitative test.

Note: Do not attempt to dilute the positive control serum for comparative or other purposes, as no correlation exists between actual titer of the control and titer of unknown sera.

Results

The degree of agglutination is recorded as follows

Dilution	Corresponding titer
-----	1/80
1:2	1/160
1:4	1/320
1:8	1/640
1:16	1/1280






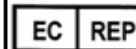



A titer of 1/80 or more is considered significant and rise in titer after a few days will confirm the diagnosis.

Individuals who have previously been immunized or inoculated with TAB vaccine or have a history of illness, to confirm the infection a rise in titer after a few days should be checked.

A moderate rise in titer of all three "H" agglutinations simultaneously against all "H" antigens is suggestive of TAB vaccination

#### REFERENCES:

1. Cruickshank, R. (1965), Medical Microbiology, 11th Edit., P.907.
2. Felixx, A. (1942), Brit. Med. J., 11., 597.
3. Protell, RL., et al., 1971, Lancet,11,330.

	Consult Instructions for Use
	Caution, consult accompanying Documents
	In Vitro Diagnostic Medical Device
	Temperature limitation
	Manufacturer
	Authorized Representative in the European Community
	Catalogue number
	Batch code
	Use by

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