N.S. BIO-TEC

Febrile Antigen Kit

REF.

Typhi O	TYP - O - 05	(1x5 ml)
Typhi H	TYP - H- 05	(1x5 ml)
Typhi AO	TYP - AO - 05	(1x5 ml)
Typhi BO	TYP - BO - 05	(1x5 ml)
Typhi para A H	TYP – AH - 05	(1x5 ml)
Typhi para B H	TYP - BH - 05	(1x5 ml)
Typhi para CO	TYP - CO - 05	(1x5 ml)
Typhi para CH	TYP - CH - 05	(1x5 ml)
Widal	WID-MA-0405	(4x5ml)
Widal	WID-MA-0205	(2x5ml)
Widal	WID-MA-0805	(8x5ml)

INTENDED FOR USE:

Rapid Slide test for the qualitative and semi-quantitative determination of specific antibodies present in serum against Salmonellae,Rickettsiae and Brucellae pathogens.

PRINCIPLE:

Febrile antigens are suitable for both the rapid slide and tube agglutination tests against human sera for the detection of these agglutinins.

SPECIMEN COLLECTION:

Clear fresh serum sample is required and not exposed to elevated temperature.
Discard Haemolized 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-O Ag suspension
Salmonella paratyphi B-O Ag suspension
Typhi Para A
Typhi Para B

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 in appropriate 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.
- 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 antigens suspension 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 two minute. A rotary shaker may also be used for rocking.
6. Observe results at the end of one minute under high intensity light

FEBRILE ANTIGEN 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.
FEBRILE antigens are specifically designed for use in detecting febrile antibodies with increased sensitivity, specificity and overall readability. This new FEBRILE 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.

SAMI – QUANT: TATIVE DETERMINATION.

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 c " 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 Instruction for Use
	Caution Consult Accompanying Documents
IVD	In Vitro Diagnostic Medical Device
	Temperature Limitation
	Manufacturer
EC REP	Authorized Representative In The European Community
REF	Catalogue Number
LOT	Batch Code
	Use By

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