

**Qualitative Determination
on Slide of Salmonellosis,
Brucellosis and Rickettsiosis Infections
in Serum by
Stained Bacterial Suspensions**

Available kits:

Salmonella Typhi H		REF 6400
Salmonella Typhi O		REF 6401
Salmonella Paratyphi AH		REF 6402
Salmonella Paratyphi AO		REF 6403
Salmonella Paratyphi A Total		REF 6418
Salmonella Paratyphi BH		REF 6404
Salmonella Paratyphi BO		REF 6405
Salmonella Paratyphi B Total		REF 6419
Salmonella Paratyphi CH		REF 6406
Salmonella Paratyphi CO		REF 6407
Salmonella Paratyphi C Total		REF 6421
Brucella Total/Abortus		REF 6408
Proteus OX 19		REF 6410
Proteus OX 2		REF 6411
Proteus OX K		REF 6412
Multiple 3 slide OK 19, OX 2, OX K		REF 6415
Multiple 5 slide H, O, A, B, BRUCELLA		REF 6414
Multiple 7 slide H, O, AH, AO, BH, BO, BRUCELLA		REF 6413

PRINCIPLE

The bacterial suspensions are prepared specifically for the detection, identification and semi-quantitation of serum agglutinins developed during infection diseases such as brucellosis, salmonellosis and certain rickettsiosis.

The assay is performed by testing the stained antigens against unknown samples. The presence or absence of a visible agglutination is usually related with presence or absence of the corresponding homologous antibody.

The bacterial suspensions have been stained (somatic blue and flagellar red) to facilitate reading and interpretation of the results.

REAGENTS

Kit components:	6400-6421	6415	6414	6413
REAGENT 1 (liquid)	1x5 ml	3x5 ml	5x5 ml	7x5 ml
Stained bacterial suspension, ready for use.				
REAGENT 2 (liquid red cap)	1x0,5 ml	2x0,5 ml	2x0,5 ml	2x0,5 ml
Positive control, ready for use.				
REAGENT 3 (liquid,blue cap)	1x1 ml	2x1 ml	2x1 ml	2x1 ml
Negative control, ready for use.				
SLIDE	17	25	40	58
STIRRER	100	150	250	350

ATTENTION: the reagents contain sodium azide as preservative (<0,1 %). Do not swallow. Avoid contact with skin and mucous membranes

STABILITY: the reagents are stable up to stated expiry date when stored at 2-8°C.

SAMPLE

Serum.
Stable 6 days at 2-8°C, 4 weeks at -20°C.

PROCEDURE

Bring the test reagents and sample to room temperature.
Resuspend the Reagent 1 vial gently.

Place in the circle of the slide sample and reagent as per the following table. The volume of the drop is 50 µl.

	Salmonella, Proteus, Brucella	Positive Control	Negative Control
Sample	50 µl		
Reagent 2		1 drop	

Reagent 3			1 drop
Reagent 1	1 drop	1 drop	1 drop

Mix with the disposable stirrer and spread over the entire area of the ring. Rock gently the slide for 2 minutes.

READING AND RESULTS

The presence of agglutination in the sample visible after 2 minutes shows a straight positivity, while if it occurs after 3 minutes the positivity is considered light. The agglutination absence means negativity.

The test is qualitative only, therefore positive results require a quantitative confirmation.

REFERENCE VALUES

The test should result negative, for a more accurate quantitative analysis a micro or macro test is recommended.

NOTES

- (*) Dangerous reagents are marked by an asterisk. Refer to MSDS. Bengal Rose is a rapid slide screening procedure which has to be used in endemic or suspected areas on human and animal sera. The characteristic of the reagent is to be reactive both with IgM and IgG antibodies, but the last ones are detected earlier (sub clinical stage) and for a larger period (chronic stage) than with the conventional tube agglutination test. Therefore positive results must be confirmed by Coombs Test. The screening application has a main value in epidemiological surveys in order to know the potential risk of epidemic diseases; in veterinary it is especially advisable for evidencing the brucella presence in suine and cattle populations.
- False negative reactions can occur in early disease, immunoresponsiveness cases and patients which have been treated with antibiotics.
- The slide can be reused after rinsing with plenty of normal water and subsequently with distilled water.

REFERENCES

Widal F., Bull. Mem. Soc. Hop de Paris 6,26 (1896)
Weil E. and Felix A., Wein. Klin. Woch 29,974 (1916)
Rose J. E. and Roepke M. H. ; Am. J. Vet. 18,550 (1957)



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