diagnostics
with passion

BACTERIOLOGICAL
TEST REAGENTS



DIN EN ISO 9001 · CERTIFIED QUALITY MANAGEMENT SYSTEM · DIN EN ISO 13485 · FDA approved

To IVD companies we offer monoclonal antibodies in high concentration or ready-to-use in bulk on request.

Anti-Salmonella A - 67 + Vi, omnivalent

Salmonella diagnostics

Agglutination test

Ready for IVDR

Optimal test reagent for the confirmation of *Salmonella* spp.

The classical agglutination test is the rapid test par excellence

- **100 % sensitivity - covers all *Salmonella* serotypes**
  Groups A to 67 or the Vi antigen
- **Strong and fast agglutination**
  Based on monoclonal antibodies
- **Examinations for different applications**
  Human, food and environmental samples
- **Only basic equipment necessary**
  Glass slide, mixing stick, NaCl
- **It only takes a few steps to get the result**
  The result is available in almost no time at all

quick ✓
simple ✓
economical ✓



sifin diagnostics gmbh | Berliner Allee 317-321 | 13088 Berlin | Germany | T: +49 30 700 144-0 | F: +49 30 700 144-30 | info@sifin.de | www.sifin.de

diagnostics with passion

BACTERIOLOGICAL TEST REAGENTS

Salmonella detection

Salmonellosis is one of the most frequent infectious diseases caused by food and continues to be important even in industrial countries.

Proceeding in accordance with **§ 64 German Food and Feed Code**, salmonellae are first isolated by pre-enrichment, **enrichment** and subsequent **cultivation** on selective media, and then subjected to **biochemical** and **serological** confirmation.

Method

If the strain that is isolated, possesses a *Salmonella* antigen which is covered by **Anti-Salmonella A-67+Vi**, this antigen becomes bound when mixed with the specific antibody. The antigen-antibody reaction causes the strain to agglutinate in a clearly visible fashion:





Serological differentiation is performed using the groupspecific and monospecific test reagents in accordance with the **White-Kauffmann-Le Minor Scheme**.

Flowchart

1. Anti-Salmonella A-67+Vi, omni.	**TR1101**
2. Anti-Salmonella I (A-E + Vi)	TR1111
3. Anti-Salmonella II (F-67)	TR1121
4. Anti-Salmonella Gr. D, B, C, E, A	see catalog
5. Anti-Salmonella O	see catalog
6. Anti-Salmonella H	see catalog

Specificity

Due to antigenic relationships, the **biochemical assignment** to the genus Salmonella must be confirmed before serotyping begins.

2 °C – 8 °C

Date of revision: 08/01/2025

Workflow Salmonella diagnostics

1. Pre-/enrichment	enrichment in liquid culture media
2. Subculture	subculture on solid culture media
3. Biochemistry	biochemical identification
4. Confirmation	salmonellae confirmation by agglutination method
5. Differentiation	serological differentiation by agglutination method

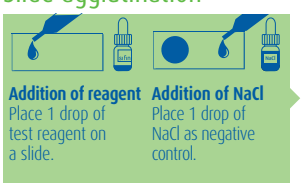
Culture media

BPLS Agar, mod	Selective culture medium for use of Salmonella from foodstuffs (acc. to § 64 German Food and Feed Code).	TN1110	500 g
Buffered Peptone Water	Nonselective pre-enrichment of salmonellae.	TN1137 TN1137-01	500 g 5 kg
DCLS Agar, mod.	Detection and isolation of salmonellae, shigellae.	TN1121	500 g
DIASSALM	Detection of motile salmonellae.	TN1013	500 g
LDC Broth	Detection of lysine decarboxylase production.	TN1154	50 g
Kligler iron Agar	Differentiation of gram-negative bacteria.	TN1146	500 g
MSRV Medium (Base)	Detection of motile salmonellae.	TN1272	500 g
Nutrient Agar III	Cultivation of suspicious bacteria from samples for subsequent use in biochemical or serological identification.	TN1168	500 g
RV Medium	Selective enrichment during isolation of salmonellae.	TN1157	500 g
RVS Broth acc. to harm. EP/USP/JP	Selective enrichment of salmonellae.	TN1262	500 g
Salmonella Shigella Agar, mod.	Isolation of salmonellae and shigellae.	TN1221 TN1221-01	500 g 5 kg
Swarm Agar	Enables salmonellae to swarm well, promotes improved formation of the H-antigens.	TN1702	20 x 10 ml
Selenite Cystine Broth	Selective enrichment of salmonellae, e.g. from faeces and foodstuffs.	TN1183	500 g
Tetrathionate Broth (Base) acc. to Muller-Kauffmann	Selective enrichment of salmonellae from meat, meat products and other foodstuffs.	TN1187	500 g
XLD Agar acc. to harm. EP/USP/JP	Test for Salmonella. Testing non-sterile products.	TN1170	500 g

Test reagents

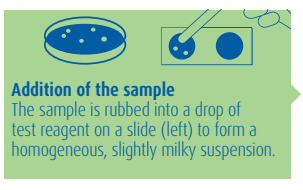
Anti-Salmonella A-67+Vi, omnivalent	Confirmation of *Salmonella*. Detects all all *Salmonella* in groups A to 67 + Vi antigen.	TR1101 TR1101-01	1 ml 5 ml
Anti-Salmonella I (A - E + Vi)	Agglutinates salmonellae of the groups O:2 (A) to O:1,3,19 (E_4) and Vi.	TR1111 TR1111-01	1 ml 5 ml
Anti-Salmonella II (F - 67)	Agglutinates salmonellae of the groups O:11 (F) to O:67.	TR1121 TR1121-01	1 ml 5 ml
Anti-Salmonella Poly-H Phase 1 & 2	Contains antibodies covering H-antigens or complexes: a, b, c, d, E, G, i, k, L, r, y, z, Z_4 Z_6, Z_{10}, Z_{29}, Z_{35}, Z_{38}, Z_{41}, H:1.	TR1141 TR1141-01	1 ml 5 ml
Reagents for differentiation	see product catalog or www.sifin.de		

Slide agglutination

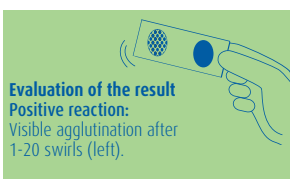


Addition of reagent
Place 1 drop of test reagent on a slide.

Addition of NaCl
Place 1 drop of NaCl as negative control.



Addition of the sample
The sample is rubbed into a drop of test reagent on a slide (left) to form a homogeneous, slightly milky suspension.



Evaluation of the result
Positive reaction:
Visible agglutination after 1-20 swirls (left).