



# Product list

Your trusted partner in diagnostics

Blood grouping serology | Bacteriological test reagents | Culture media  
Immunoassays | Monoclonal antibodies | Contract manufacturing

# Bacteriological Test Reagents

DIAGNOSTICS WITH PASSION



## Genuine products for serotyping

sifin diagnostics gmbh offers a comprehensive line of specific test reagents for serotyping in clinical and veterinary diagnostics. Our tests are based on monoclonal antibodies. This leads to a strong and specific agglutination without cross reaction.

All our antibodies have been developed in-house and are manufactured in our company. Our products are offered as ready-to-use reagents in dropper bottles or as bulk to IVD companies.

## Our portfolio comprises:

- Salmonella Diagnostics
- Shigella Diagnostics
- Yersinia Diagnostics
- Coli Diagnostics



# Salmonella Diagnostics

## Test reagents for the confirmation of *Salmonella*

For the slide agglutination test using polyvalent, group and monospecific test reagents, start with a subculture of the suspect colony or colonies, preferably on non-selective culture medium such as Nutrient Agar, Blood Agar or Kligler Agar.

Before starting the serotyping, it is necessary to confirm biochemically that the isolate belongs to the *Salmonella* genus. For this purpose, alternative procedures (e.g. MALDI mass spectroscopy: MALDI-TOF) can also be used, presuming that the suitability of the procedure has been verified.

Art. No.	Product	Description	Liquid   Lyo.	Packing
TR1101 TR1101-01	<b>Anti-Salmonella (A - 67 + Vi), omnivalent</b>	Used for the confirmation of the <i>Salmonella</i> genus.	liquid liquid	1 ml 5 ml
TR1111 TR1111-01	<b>Anti-Salmonella I (A - E + Vi)</b>	Agglutinates salmonellae of the groups O:2 (A) to O:1,3,19 (E <sub>4</sub> ) and Vi.	liquid liquid	1 ml 5 ml
TR1121 TR1121-01	<b>Anti-Salmonella II (F - 67)</b>	Agglutinates salmonellae of the groups O:11 (F) to O:67.	lyophilised lyophilised	1 ml 5 ml
TR1141 TR1141-01	<b>Anti-Salmonella Poly-H Phase 1 &amp; 2</b>	Contains antibodies covering H-antigens or complexes: a, b, c, d, E, G, i, k, L, r, y, Z, Z <sub>4</sub> , Z <sub>6</sub> , Z <sub>10</sub> , Z <sub>29</sub> , Z <sub>35</sub> , Z <sub>38</sub> , Z <sub>41</sub> , H:1.	liquid liquid	1 ml 5 ml

## O-Group Pool test reagents

First carry out the test with Anti-Salmonella OMA and Anti-Salmonella OMB: Approx. 98 % of *Salmonella* can be assigned. If the strain does not agglutinate, it is recommended to test this strain with Anti-Salmonella Vi. If this reaction is also negative the strain must be agglutinated with Anti-Salmonella OMC, Anti-Salmonella OMD, Anti-Salmonella OME, Anti-Salmonella OMF and Anti-Salmonella OMG.

Art. No.	Product	Description	Liquid   Lyo.	Packing
TR1151 TR1151-01	<b>Anti-Salmonella OMA</b>	(A, B, D, E, L)	liquid liquid	1 ml 3 ml
TR1161 TR1161-01	<b>Anti-Salmonella OMB</b>	(C, F, G, H)	liquid liquid	1 ml 3 ml
TR1170	<b>Anti-Salmonella OMC</b>	(I, J, K, M, N, O, P)	liquid	1 ml
TR1171	<b>Anti-Salmonella OMD</b>	(Q, R, S, T, U, V, W)	liquid	1 ml
TR1172	<b>Anti-Salmonella OME</b>	(X, Y, Z, 51, 52, 53)	liquid	1 ml
TR1173	<b>Anti-Salmonella OMF</b>	(54, 55, 56, 57, 58, 59)	liquid	1 ml
TR1174	<b>Anti-Salmonella OMG</b>	(60, 61, 62, 63, 65, 66, 67)	liquid	1 ml
TR1316	<b>Anti-Salmonella Vi</b>		liquid	1 ml

## H-Phase Pool test reagents

The test, using Anti-Salmonella HMA, Anti-Salmonella HMB or Anti-Salmonella HMC, enables the identification of the most common H-antigens or H-antigen complexes of *Salmonella* strains. Furthermore the presence of the antigen complex H:1 should be tested by Anti-Salmonella H:1 (REF TR1437, TR1437-01).

Art. No.	Product	Description	Liquid   Lyo.	Packing
TR1181	<b>Anti-Salmonella HMA</b>	(a, b, c, d, i, z <sub>10</sub> , z <sub>29</sub> )	liquid	1 ml
TR1181-01			liquid	3 ml
TR1183	<b>Anti-Salmonella HMB</b>	(E, G)	liquid	1 ml
TR1183-01			liquid	3 ml
TR1185	<b>Anti-Salmonella HMC</b>	(k, y, z, L, Z <sub>4</sub> , r)	liquid	1 ml
TR1185-01			liquid	3 ml

## Group specific test reagents Anti-Salmonella

Mixtures of monoclonal antibodies of the corresponding specificities in the form of cell culture supernatants. To determine the serogroup of *Salmonella* spp. that agglutinate with the omnivalent test reagent and/or the polyspecific test reagent Anti-Salmonella I. They agglutinate *Salmonella* spp. of the declared serogroup. According to the frequency of the reported serovars, the group-specific test reagents should be used in the following order:

1. Anti-Salmonella group D
2. Anti-Salmonella group B
3. Anti-Salmonella group C
4. Anti-Salmonella group E
5. Anti-Salmonella O:2 corresponds to Anti-Salmonella group A

Art. No.	Product	Description	Liquid   Lyo.	Packing
TR1201	<b>Anti-Salmonella Group B</b>	Records all antigen combinations of group O:4 (B).	liquid	1 ml
TR1201-01			liquid	5 ml
TR1202	<b>Anti-Salmonella Group C</b>	Records all strains of group O:7 (C <sub>1</sub> ) and O:8 (C <sub>2</sub> -C <sub>3</sub> ).	liquid	1 ml
TR1203	<b>Anti-Salmonella Group D</b>	Records all strains of group O:9 (D <sub>1</sub> ), O:9,46 (D <sub>2</sub> ) and O:9,46,27 (D <sub>3</sub> ).	liquid	1 ml
TR1203-01			liquid	5 ml
TR1204	<b>Anti-Salmonella Group E (O:3 complex)</b>	Records all strains of group O:3,10; O:3,15; O:3,15,34 (E <sub>1</sub> ) and O:1,3,19 (E <sub>2</sub> ).	liquid	1 ml

# Salmonella Diagnostics

## Monospecific test reagents Anti-Salmonella O

For use in identifying specific O-antigens or Vi-antigen. The test reagents for specificities that are needed less often are lyophilised (freeze-dried).

Art. No.	Product	Description	Liquid   Lyo.	Packing
TR1301	<b>Anti-Salmonella O:2</b>	group A	liquid	1 ml
TR1302	<b>Anti-Salmonella O:4</b>	group B	liquid	1 ml
TR1302-01			liquid	5 ml
TR1303	<b>Anti-Salmonella O:5</b>	group B	liquid	1 ml
TR1303-01			liquid	5 ml
TR1304	<b>Anti-Salmonella O:6<sub>1</sub></b>	group C <sub>2</sub> -C <sub>3</sub>	lyophilised	1 ml
TR1305	<b>Anti-Salmonella O:7</b>	group C <sub>1</sub>	liquid	1 ml
TR1306	<b>Anti-Salmonella O:8</b>	group C <sub>2</sub> -C <sub>3</sub>	liquid	1 ml
TR1307	<b>Anti-Salmonella O:9</b>	group D	liquid	1 ml
TR1307-01			liquid	5 ml
TR1308	<b>Anti-Salmonella O:10</b>	group E <sub>1</sub> and group E <sub>4</sub>	liquid	1 ml
TR1323	<b>Anti-Salmonella O:11</b>	group F	lyophilised	1 ml
TR1325	<b>Anti-Salmonella O:13</b>	group G	lyophilised	1 ml
TR1309	<b>Anti-Salmonella O:14</b>	group H, not group C <sub>1</sub>	lyophilised	1 ml
TR1310	<b>Anti-Salmonella O:15</b>	group E <sub>1</sub>	liquid	1 ml
TR1328	<b>Anti-Salmonella O:16</b>	group I	lyophilised	1 ml
TR1329	<b>Anti-Salmonella O:17</b>	group J	lyophilised	1 ml
TS1330	<b>Anti-Salmonella O:18</b>	group K	lyophilised	1 ml
TR1311	<b>Anti-Salmonella O:19</b>	group E <sub>4</sub>	liquid	1 ml
TR1312	<b>Anti-Salmonella O:20</b>	group C <sub>2</sub> -C <sub>3</sub>	liquid	1 ml
TR1331	<b>Anti-Salmonella O:21</b>	group L	lyophilised	1 ml
TS1332	<b>Anti-Salmonella O:22</b>	group G	lyophilised	1 ml
TR1335	<b>Anti-Salmonella O:25</b>	group H	lyophilised	1 ml
TR1313	<b>Anti-Salmonella O:27</b>	group B and group D <sub>3</sub>	liquid	1 ml
TR1336	<b>Anti-Salmonella O:28</b>	group M	lyophilised	1 ml
TR1339	<b>Anti-Salmonella O:30</b>	group N	lyophilised	1 ml
TR1314	<b>Anti-Salmonella O:34</b>	group E <sub>3</sub>	liquid	1 ml
TR1341	<b>Anti-Salmonella O:35</b>	group O	lyophilised	1 ml
TR1344	<b>Anti-Salmonella O:38</b>	group P	lyophilised	1 ml
TR1345	<b>Anti-Salmonella O:39</b>	group Q	lyophilised	1 ml

Art. No.	Product	Description	Liquid   Lyo.	Packing
TR1346	<b>Anti-Salmonella O:40</b>	group R	lyophilised	1 ml
TR1347	<b>Anti-Salmonella O:41</b>	group S	lyophilised	1 ml
TR1348	<b>Anti-Salmonella O:42</b>	group T	lyophilised	1 ml
TR1349	<b>Anti-Salmonella O:43</b>	group U	lyophilised	1 ml
TR1350	<b>Anti-Salmonella O:44</b>	group V	lyophilised	1 ml
TR1351	<b>Anti-Salmonella O:45</b>	group W	lyophilised	1 ml
TR1315	<b>Anti-Salmonella O:46</b>	group D <sub>2</sub>	liquid	1 ml
TR1353	<b>Anti-Salmonella O:47</b>	group X	lyophilised	1 ml
TR1354	<b>Anti-Salmonella O:48</b>	group Y	lyophilised	1 ml
TR1355	<b>Anti-Salmonella O:50</b>	group Z	lyophilised	1 ml
TR1356	<b>Anti-Salmonella O:51</b>		lyophilised	1 ml
TR1357	<b>Anti-Salmonella O:52</b>		lyophilised	1 ml
TR1358	<b>Anti-Salmonella O:53</b>		lyophilised	1 ml
TR1359	<b>Anti-Salmonella O:54</b>		lyophilised	1 ml
TR1360	<b>Anti-Salmonella O:55</b>		lyophilised	1 ml
TR1361	<b>Anti-Salmonella O:56</b>		lyophilised	1 ml
TR1362	<b>Anti-Salmonella O:57</b>		lyophilised	1 ml
TR1363	<b>Anti-Salmonella O:58</b>		lyophilised	1 ml
TR1364	<b>Anti-Salmonella O:59</b>		lyophilised	1 ml
TR1365	<b>Anti-Salmonella O:60</b>		lyophilised	1 ml
TR1366	<b>Anti-Salmonella O:61</b>		lyophilised	1 ml
TR1367	<b>Anti-Salmonella O:62</b>		lyophilised	1 ml
TR1368	<b>Anti-Salmonella O:63</b>		lyophilised	1 ml
TR1369	<b>Anti-Salmonella O:65</b>		lyophilised	1 ml
TR1370	<b>Anti-Salmonella O:66</b>		lyophilised	1 ml
TR1371	<b>Anti-Salmonella O:67</b>		lyophilised	1 ml

## Monospecific test reagent Anti-Salmonella Vi

Identification of the Vi-antigen.

Art. No.	Product	Liquid   Lyo.	Packing
TR1316	<b>Anti-Salmonella Vi</b>	liquid	1 ml

# Salmonella Diagnostics

## Monospecific test reagents Anti-Salmonella H

For use in identifying or checking the H-antigens or H-antigen complexes of *Salmonella* strains in accordance with the White-Kauffmann-Le-Minor scheme using slide agglutination. They enable the serovar to be determined.

Art. No.	Product	Phase induction	Liquid   Lyo.	Packing
TR1401	<b>Anti-Salmonella H:a</b>	x	liquid	1 ml
TR1402	<b>Anti-Salmonella H:b</b>	x	liquid	1 ml
TR1403	<b>Anti-Salmonella H:c</b>	x	liquid	1 ml
TR1404	<b>Anti-Salmonella H:d</b>	x	liquid	1 ml
TR1405	<b>Anti-Salmonella H:E</b>	x	liquid	1 ml
TR1405-01		x	liquid	5 ml
TR1407	<b>Anti-Salmonella H:f</b>		lyophilised	1 ml
TR1406	<b>Anti-Salmonella H:g</b>	x	liquid	1 ml
TR1406-01		x	liquid	5 ml
TR1408	<b>Anti-Salmonella H:g,m</b>	x	liquid	1 ml
TR1408-01		x	liquid	5 ml
TR1409	<b>Anti-Salmonella H:h</b>		liquid	1 ml
TR1410	<b>Anti-Salmonella H:i</b>	x	liquid	1 ml
TR1410-01		x	liquid	5 ml
TR1411	<b>Anti-Salmonella H:k</b>	x	lyophilised	1 ml
TR1412	<b>Anti-Salmonella H:l</b>	x	liquid	1 ml
TR1412-01		x	liquid	5 ml
TS1413	<b>Anti-Salmonella H:m</b>		lyophilised	1 ml
TR1438	<b>Anti-Salmonella H:n</b>	x	liquid	1 ml
TS1414	<b>Anti-Salmonella H:p</b>		lyophilised	1 ml
TS1415	<b>Anti-Salmonella H:q</b>		lyophilised	1 ml
TR1416	<b>Anti-Salmonella H:r</b>	x	liquid	1 ml
TS1417	<b>Anti-Salmonella H:s</b>		lyophilised	1 ml
TS1418	<b>Anti-Salmonella H:t</b>		lyophilised	1 ml
TS1419	<b>Anti-Salmonella H:u</b>		lyophilised	1 ml
TS1420	<b>Anti-Salmonella H:v</b>		lyophilised	1 ml
TS1421	<b>Anti-Salmonella H:w</b>		lyophilised	1 ml
TS1422	<b>Anti-Salmonella H:x</b>		lyophilised	1 ml
TR1423	<b>Anti-Salmonella H:y</b>	x	liquid	1 ml
TR1424	<b>Anti-Salmonella H:z</b>	x	liquid	1 ml
TS1425	<b>Anti-Salmonella H:z<sub>4r</sub>z<sub>23</sub></b>		lyophilised	1 ml

Art. No.	Product	Phase induction	Liquid   Lyo.	Packing
TS1426	<b>Anti-Salmonella H:z<sub>6</sub></b>		lyophilised	1 ml
TR1427	<b>Anti-Salmonella H:z<sub>10</sub></b>	x	liquid	1 ml
TR1439	<b>Anti-Salmonella H:z<sub>13</sub></b>	for use by reference labs	liquid	1 ml
TS1428	<b>Anti-Salmonella H:z<sub>15</sub></b>		lyophilised	1 ml
TR1440	<b>Anti-Salmonella H:z<sub>23</sub></b>		lyophilised	1 ml
TS1429	<b>Anti-Salmonella H:z<sub>24</sub></b>		lyophilised	1 ml
TS1449	<b>Anti-Salmonella H:z<sub>28</sub></b>		lyophilised	1 ml
TS1430	<b>Anti-Salmonella H:z<sub>29</sub></b>		lyophilised	1 ml
TS1431	<b>Anti-Salmonella H:z<sub>32</sub></b>		lyophilised	1 ml
TR1445	<b>Anti-Salmonella H:z<sub>35</sub></b>	x	lyophilised	1 ml
TR1447	<b>Anti-Salmonella H:z<sub>38</sub></b>	x	lyophilised	1 ml
TR1448	<b>Anti-Salmonella H:z<sub>41</sub></b>	x	lyophilised	1 ml
TR1437	<b>Anti-Salmonella H:1</b>	x	liquid	1 ml
TR1437-01		x	liquid	5 ml
TR1433	<b>Anti-Salmonella H:2</b>		lyophilised	1 ml
TR1433-01			lyophilised	5 ml
TS1434	<b>Anti-Salmonella H:5</b>		lyophilised	1 ml
TR1435	<b>Anti-Salmonella H:6</b>		lyophilised	1 ml
TS1436	<b>Anti-Salmonella H:7</b>		lyophilised	1 ml

## Control antigens for the Anti-Salmonella test reagents

The control antigens are used to check the agglutinability of the Anti-Salmonella test reagents and for quality control when carrying out the slide agglutination test.

Art. No.	Product	Antigen formula	Liquid   Lyo.	Packing
TS1501	<b>Control antigen Salmonella Paratyphi A-OH</b>	2,12:a:[1,5] (Usually occurs as a monophasic variant.)	liquid	5 ml
TS1502	<b>Control antigen Salmonella Paratyphi B-OH</b>	1,4,[5],12:b:1,2	liquid	5 ml
TS1503	<b>Control antigen Salmonella Paratyphi C-OH</b>	6,7,[Vi]:c:1,5 (Use TS1507 for Vi.)	liquid	5 ml
TS1504	<b>Control antigen Salmonella Typhi-OH</b>	9,12, [Vi]:d- (Use TS1507 for Vi.)	liquid	5 ml
TS1505	<b>Control antigen Salmonella Typhimurium-OH</b>	1,4,[5],12:i:1,2 (Often occurs as a monophasic variant.)	liquid	5 ml
TS1506	<b>Control antigen Salmonella Enteritidis-OH</b>	1,9,12:g,m:-	liquid	5 ml
TS1507	<b>Control antigen Salmonella Vi</b>		liquid	5 ml

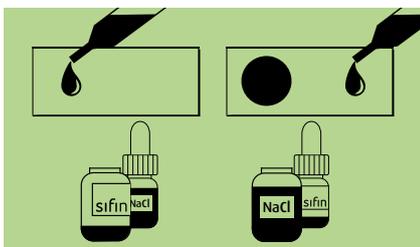
# Easy workflow at a glance

## Flowchart

SEROTYPING THE O ANTIGENS AND THE H ANTIGENS	1. Omnivalent test reagent	Anti-Salmonella A-67 + Vi, omnivalent	TR1101
	2. Polyspecific test reagent	Anti-Salmonella I (A-E + Vi)	TR1111
	3. Polyspecific test reagent	Anti-Salmonella II (F-67)	TR1121
	4. Group specific test reagents	Anti-Salmonella D, B, C, E, A	TR1203 TR1201 TR1202 TR1204 TR1301
	5. Monospecific test reagents	Anti-Salmonella O	
	6. Monospecific test reagents	Anti-Salmonella H	

1. The **Anti-Salmonella A-67 + Vi** test reagent is used for serological evidence of Salmonella O antigens using the slide agglutination test for the confirmation of *Salmonella* spp.
2. The **Anti-Salmonella I** test reagent is used to classify isolates that agglutinate with the omnivalent test reagent into groups A to E.
3. The **Anti-Salmonella II** test reagent is used to classify isolates that agglutinate with the omnivalent test reagent but not Anti-Salmonella I into groups O:11 (F) - 67.
4. The **Anti-Salmonella D, B, C, E, A** group-specific test reagents are used to identify the serogroup of *Salmonella* that agglutinates with the omnivalent test reagent and/or the polyspecific test reagent Anti-Salmonella I. They agglutinate *Salmonella* of the declared serogroup, see page 13.
5. The monospecific **Anti-Salmonella O** test reagents are used either to identify the group-specific O antigens and thus to allocate an isolate to the appropriate group in the White-Kauffmann-Le Minor scheme or to detect additional O antigens if they are required for identifying or verifying the serovar.
6. The monospecific **Anti-Salmonella H**: For serotyping *Salmonella*, it is necessary to identify the H antigen(s) as well as the O antigens. For bi-phasic strains the H antigens of both phases must be identified. The Anti-Salmonella H test reagents are used to identify or verify the H antigens or H antigen complex of *Salmonella* strains according to the White-Kauffmann-Le Minor scheme with the help of the slide agglutination test. It enables identification of the serovar.

## Agglutination method

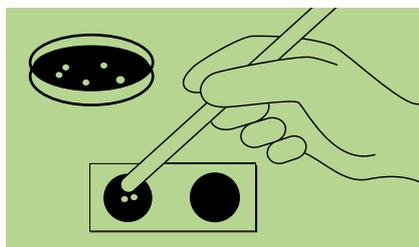


### Addition of reagent

Place 1 drop of test reagent on a slide.

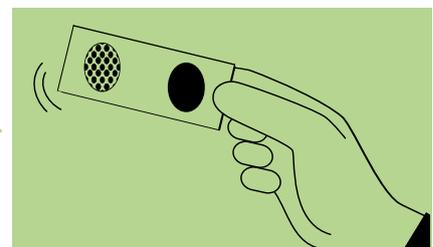
### Addition of NaCl

Then place 1 drop of NaCl as negative control on the same slide (here on the right).



### Addition of the sample

A little bacterial mass is rubbed into a drop of test reagent on a slide (here on the left) to form a homogeneous, slightly milky suspension. The examination material (sample) was previously incubated on non-selective culture medium for approx. 16 - 20 hours at 35 - 37 °C.



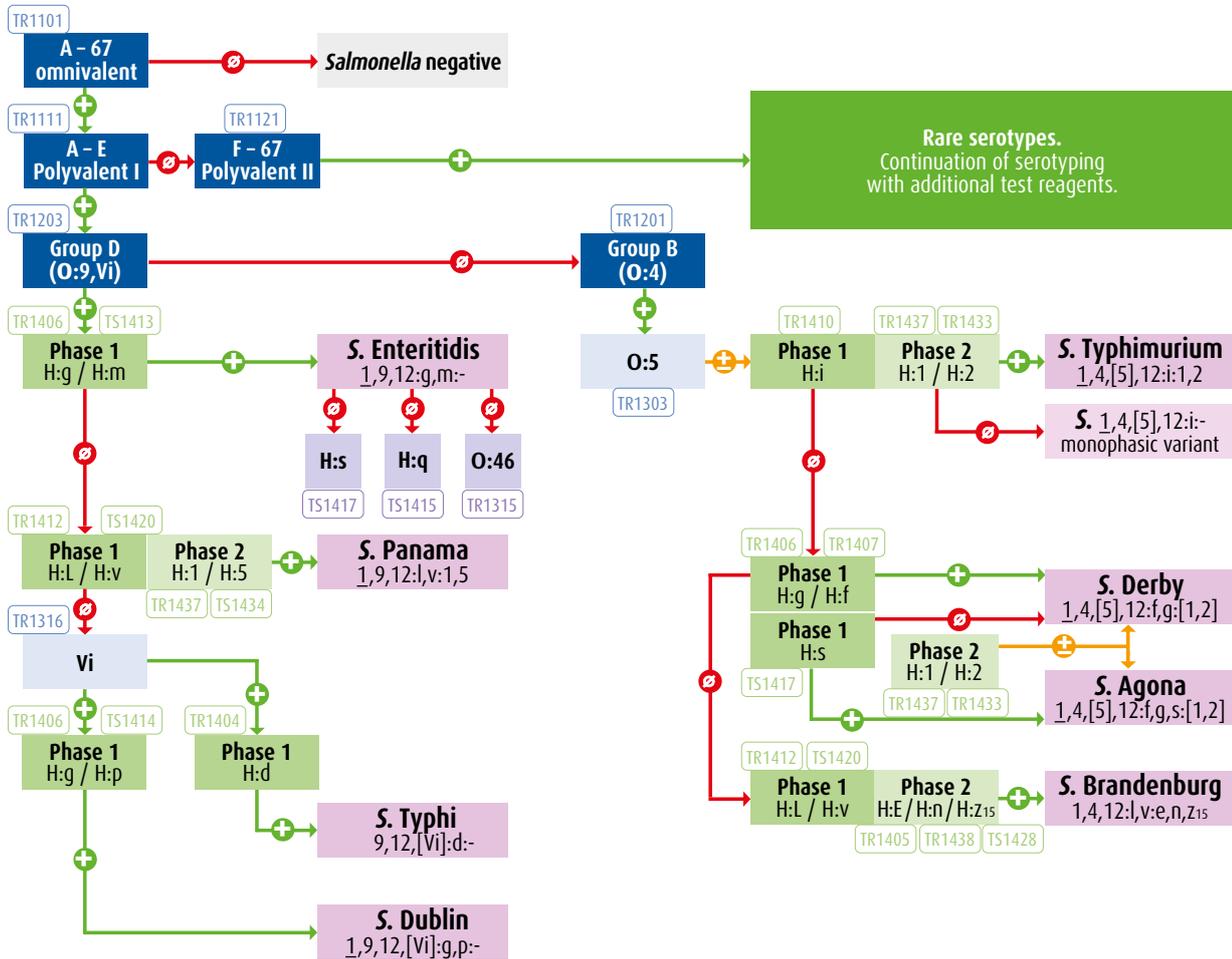
### Evaluation of the results

The slide is held in front of a light source (against a black background) and the result read with the naked eye.

**Positive reaction:** Visible agglutination after 1 to 20 swirls (here on the left).

**Negative reaction:** The negative control with physiological saline solution remains milky-cloudy (here on the right).

# Examples of *Salmonella* Serotyping



- poly- or group specific reagent
- O-specific reagent
- H-specific reagent, phase 1
- H-specific reagent, phase 2
- Salmonella* serotype
- ➔ positive result
- ➔ negative result
- ➔ positive or negative result possible

Our test scheme for salmonella serotyping is available on request.

# Shigella Diagnostics

## Polyspecific test reagents Anti-Shigella

Serological detection of the serovar of *Shigella* strains using the slide agglutination test.

Art. No.	Product	Contains antibodies against	Liquid   Lyo.	Packing
TR1811	<b>Anti-Shigella I Group B + D</b>	<i>S. flexneri</i> , type 1 to 6, group 3,4 (y), 6 and 7,8 (x) and <i>S. sonnei</i> S and F form (phase I and II)	lyophilised	1 ml
TR1811-01			lyophilised	5 ml
TS1821	<b>Anti-Shigella II Group A</b>	<i>S. dysenteriae</i> , type 1 to 10	lyophilised	1 ml
TS1821-01			lyophilised	5 ml
TS1831	<b>Anti-Shigella III Group C</b>	<i>S. boydii</i> , type 1 to 15	lyophilised	1 ml
TS1901	<b>Anti-Shigella flexneri Group B</b>	type 1 - 6 and group 3,4 (y), 6 and 7,8 (x)	lyophilised	1 ml

## Monospecific test reagents Anti-Shigella

Serological detection and the determination of the serovar of *Shigella* O antigens using the slide agglutination test.

Art. No.	Product	Description	Liquid   Lyo.	Packing
TS2001	<b>Anti-Shigella dysenteriae type 1</b>	monospecific	lyophilised	1 ml
TS2002	<b>Anti-Shigella dysenteriae type 2</b>	monospecific	lyophilised	1 ml
TS2003	<b>Anti-Shigella flexneri type 1</b>	monospecific	lyophilised	1 ml
TS2004	<b>Anti-Shigella flexneri type 2</b>	monospecific	lyophilised	1 ml
TS2005	<b>Anti-Shigella flexneri type 3</b>	monospecific	lyophilised	1 ml
TS2006	<b>Anti-Shigella flexneri type 4</b>	monospecific	lyophilised	1 ml
TS2007	<b>Anti-Shigella flexneri type 5</b>	monospecific	lyophilised	1 ml
TS2008	<b>Anti-Shigella flexneri type 6</b>	monospecific	lyophilised	1 ml
TS2009	<b>Anti-Shigella flexneri group 3,4 (y)</b>	monospecific	liquid	1 ml
TS2010	<b>Anti-Shigella flexneri group 6</b>	monospecific	lyophilised	1 ml
TS2011	<b>Anti-Shigella flexneri group 7,8 (x)</b>	monospecific	lyophilised	1 ml
TR2012	<b>Anti-Shigella sonnei S form</b>	phase I, monospecific	lyophilised	1 ml
TR2013	<b>Anti-Shigella sonnei F form</b>	phase II, monospecific	lyophilised	1 ml
TR2014	<b>Anti-Shigella sonnei S form and F form Group D</b>	phase I and phase II, monospecific	lyophilised	1 ml

## Control antigens for the Anti-Shigella test reagents

The control antigens are used to check the agglutinability of the Anti-Shigella test reagents and for quality control when carrying out the slide agglutination test.

Art. No.	Product	Description	Liquid   Lyo.	Packing
TS1510	<b>Control antigen Shigella flexneri</b>	<i>S. flexneri</i> Type 1b, 2a, 3a, 4a	liquid	2 ml
TS1511	<b>Control antigen Shigella dysenteriae</b>	<i>S. dysenteriae</i> Type 1, 2, 3, 7	liquid	2 ml
TS1512	<b>Control antigen Shigella boydii</b>	<i>S. boydii</i> Type 1, 2, 5, 8	liquid	2 ml
TS1513	<b>Control antigen Shigella sonnei</b>	<i>S. sonnei</i> S-form (phase I) <i>S. sonnei</i> F-form (phase II)	liquid	2 ml

# Yersinia Diagnostics

## Monospecific test reagents Anti-Yersinia enterocolitica O

Identification of human pathogenic serovars of the species *Yersinia enterocolitica* by slide agglutination.

Art. No.	Product	Liquid   Lyo.	Packing
TS1701	<b>Anti-Yersinia enterocolitica O 3</b>	lyophilised	1 ml
TS1704	<b>Anti-Yersinia enterocolitica O 5</b>	lyophilised	1 ml
TS1705	<b>Anti-Yersinia enterocolitica O 8</b>	lyophilised	1 ml
TS1703	<b>Anti-Yersinia enterocolitica O 9</b>	lyophilised	1 ml

quick ✓  
simple ✓  
economical ✓



# Coli Diagnostics

## Polyspecific test reagents Anti-Coli

Serological detection of isolated *E. coli* strains from human test material or other origin by slide agglutination.

Art. No.	Product	Contains antibodies against	Liquid   Lyo.	Packing
TS2111	<b>Anti-Coli I</b>	O 26:K 60, O 44:K 74, O 114:K90,	lyophilised	1 ml
TS2111-01		O 125:K 70, O 142:K 86, O 158:K -	lyophilised	5 ml
TR2121	<b>Anti-Coli II</b>	O 55:K 59, O 86:K 61, O 91:K -,	lyophilised	1 ml
TR2121-01		O 111:K 58, O 119:K 69, O 126:K 71, O 127:K 63, O 128:K 67	lyophilised	5 ml
TR2131	<b>Anti-Coli III</b>	O 25:K 11, O 78:K 80, O 103:K -,	lyophilised	1 ml
TR2131-01		O 118:K -, O 124:K 72, O 145:K -, O 157:K -, O 164:K -	lyophilised	5 ml

Our product brochure for serotyping  
is available on request.

# Coli Diagnostics

## Monospecific test reagents Anti-Coli

Used for the serological detection and serovar determination of isolated *E. coli* strains from human test material or other origin by slide agglutination and Widal reaction (confirmation test).

Art. No.	Product	Liquid   Lyo.	Packing
TS2201	<b>Anti-Coli O 25:K 11</b>	lyophilised	1 ml
TS2202	<b>Anti-Coli O 26:K 60</b>	lyophilised	1 ml
TS2203	<b>Anti-Coli O 44:K 74</b>	lyophilised	1 ml
TS2204	<b>Anti-Coli O 55:K 59</b>	lyophilised	1 ml
TR2205	<b>Anti-Coli O 78:K 80</b>	lyophilised	1 ml
TS2206	<b>Anti-Coli O 86:K 61</b>	lyophilised	1 ml
TS2222	<b>Anti-Coli O 91:K -</b>	lyophilised	1 ml
TS2216	<b>Anti-Coli O 103:K -</b>	lyophilised	1 ml
TS2207	<b>Anti-Coli O 111:K 58</b>	lyophilised	1 ml
TS2208	<b>Anti-Coli O 114:K 90</b>	lyophilised	1 ml
TS2220	<b>Anti-Coli O 118:K -</b>	lyophilised	1 ml
TS2209	<b>Anti-Coli O 119:K 69</b>	lyophilised	1 ml
TR2210	<b>Anti-Coli O 124:K 72</b>	lyophilised	1 ml
TS2211	<b>Anti-Coli O 125:K 70</b>	lyophilised	1 ml
TS2212	<b>Anti-Coli O 126:K 71</b>	lyophilised	1 ml
TS2213	<b>Anti-Coli O 127:K 63</b>	lyophilised	1 ml
TS2214	<b>Anti-Coli O 128:K 67</b>	lyophilised	1 ml
TS2215	<b>Anti-Coli O 142:K 86</b>	lyophilised	1 ml
TS2221	<b>Anti-Coli O 145:K -</b>	lyophilised	1 ml
TR2218	<b>Anti-Coli O 157:K -</b>	lyophilised	1 ml
TS2219	<b>Anti-Coli O 158:K -</b>	lyophilised	1 ml
TS2217	<b>Anti-Coli O 164:K -</b>	lyophilised	1 ml

# E. coli relevant to veterinary medicine

## Coli diagnostics in young poultry

The polyspecific screening reagent Anti-Coli A is intended for use in the serological detection of O 1, O 2, O 18 as well as O 78 antigen of *E. coli* strains isolated from test material, using slide agglutination. An isolate with positive results requires testing with monospecific reagents for further characterisation and to rule out unspecific agglutinations a check by the Gruber-Widal test (confirmation test).

Art. No.	Product	Description	Liquid   Lyo.	Packing
TR2311	<b>Anti-Coli A</b>	polyspecific (O 1, O 2, O 18, O 78) serological detection of O 1-, O 2-, O 18 or O 78 antigen.	lyophilised	1 ml
TS2401	<b>Anti-Coli O 1</b>	monospecific	lyophilised	1 ml
TS2402	<b>Anti-Coli O 2</b>	monospecific	lyophilised	1 ml
TS2403	<b>Anti-Coli O 18</b>	monospecific	lyophilised	1 ml
TR2205	<b>Anti-Coli O 78:K 80</b>	monospecific	lyophilised	1 ml

## Coli diagnostics in young cattles

The test sera are used to test for the presence of type-specific antigens with *Escherichia coli* isolates from cattles. They are used as evidence of antigens to the cell surface of the *E. coli* isolate (O antigen, K antigen and F antigen) using slide agglutination. First carry out a screening agglutination with the polyspecific test serum Anti-Coli C. If the reaction with the polyspecific test serum is positive, the isolate must then be typed with the monospecific test sera. The F5 (K99) antigen is often not formed in sufficient quantities on standard culture media. We therefore recommend the use of Minca Agar when culturing to promote the formation of the fimbrial antigen F5 (K99).

Art. No.	Product	Description	Liquid   Lyo.	Packing
TS2601	<b>Anti-Coli C</b>	polyspecific (O 9:K 35, O 101:K 28, O 101:K 30, O 101:K 32) Contains antibodies directed against the <i>E. coli</i> types listed as monospecific (TS 2611, TS 2612, TS 2613, TS 2614) and the fimbrial antigen F 5 (K 99).	liquid	1 ml
TS2615	<b>Anti-Coli F 5 (K 99)</b>	monospecific	liquid	1 ml
TS2611	<b>Anti-Coli O 9:K 35</b>	monospecific	liquid	1 ml
TS2612	<b>Anti-Coli O 101:K 28</b>	monospecific	liquid	1 ml
TS2613	<b>Anti-Coli O 101:K 30</b>	monospecific	liquid	1 ml
TS2614	<b>Anti-Coli O 101:K 32</b>	monospecific	liquid	1 ml
TR2205	<b>Anti-Coli O 78:K 80</b>	monospecific	lyophilised	1 ml
TN1040	<b>Minca Agar, modified</b>	see also dehydrated culture media		500 g
TN1334	<b>Minca Supplement</b>	see also supplements		12 x 1 vial