diagnostics
with passion

sifin

Product list 2019

Your trusted partner in diagnostics

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

Products **2019**

DIAGNOSTICS WITH PASSION

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Miscellaneous

Blood Grouping Serology

Bacteriological Test Reagents

Culture Media

Immunoassays

Monoclonal Antibodies

Contract Manufacturing

MICRONAUT System

Your contact with sifin

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Company Profile

DIAGNOSTICS WITH PASSION

Your Trusted Partner in Diagnostics

sifin diagnostics gmbh has emerged from the former 'Staatliches Institut für Immunpräparate und Nährmedien' of the GDR. Thanks to investments by a German family of entrepreneurs in 1992, the diagnostics division (microbiology and blood grouping serology) survived after the reunification.

Since then, sifin diagnostics gmbh has recorded constant growth. The number of employees and turnover have tripled, and today the company, which is still in family ownership, has an established position in the diagnostics industry. In the past few years, especially the export activities have been strengthened and could be intensively developed in the key markets of Europe and Asia.

sifin diagnostics gmbh offers more than 600 standard products in the area of microbiology and immunology. Beside this we are proud of our flexibility in special requests. We thus provide culture media according to your formulation, or we take care of your cell line. Our monoclonal antibodies may be supplied in your required format as ready-to-use or concentrate in bulk volumes.

The company has an excellent reputation thanks to its great flexibility and reliability in the fulfilment of specific customer requests. sifin diagnostics gmbh is a trusted supplier and competent contact for many companies all over the world.

Order Blank

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Customer no.

Name

Art. No.	Quantity	Product

Invoice address

Company / Department

Contact

Address

Zip, city / State

Telephone

Telefax

E-Mail

Delivery address

Company / Department

Contact

Address

Zip, city / State

Telephone

Telefax

E-Mail

☑ **I order the items as mentioned above.**

Date

Signature

Blood Grouping Serology

DIAGNOSTICS WITH PASSION

Blood grouping for every format

Our experience in development and production of monoclonal antibodies for blood grouping has a long history. For more than 40 years we have been working with monoclonal antibodies for blood grouping.

Our products are available in different ready-to-use formats: dropper bottle for routine diagnostics, bedside cards for confirmation tests or reagents for PK® instruments.

To IVD companies we offer our monoclonal antibodies in high concentration or in bulk.

Our portfolio comprises:

- Bedside cards
- Ready-to-use reagents
- Ready-to-use reagents as bulk and concentrates
- Ready-to-use test reagents for blood grouping on PK® instruments

Blood Grouping Serology

Bedside cards for identity proof

Ready-to-use twin-cards Serafol® ABO and Serafol® ABO+D are used for an identity check immediately prior to a blood transfusion (bedside test). The test is the confirmation of earlier ABO and D blood typing of the recipient and ensures the compatibility of blood types of the recipient and the blood to be transfused. Thus, possible mismatches can be detected. Cards are coated with dried monoclonal reagents. The test principle is a hemagglutination test for the detection of the respective red cell antigens. ABO blood types and the rhesus characteristic D are defined by the presence or absence of the antigens A, B, and D on red cells. If such antigens are present on the red cells, they will be agglutinated by the corresponding antibodies (positive reaction).

Art. No.	Product	Description	Packing
BG 1721	**Serafol® ABO**	for 10 double determinations or 20 single determinations 1 kit contains 1 twin card, 2 cover foils and 2 mixing sticks.	10 x 1 kit
BG 1722		for 50 double determination or 100 single determination clone: A003, B005	50 cards
BG 1723	**Serafol® ABO+D**	for 50 double determinations or 100 single determinations clone: A003, B005, BS226	50 cards
BG 1712	**Sticks**	used to stir each bedside card's reaction field until the reagents are completely dissolved	100 sticks
BG 1713	**Self-adhesive foil cover**	for documentation, the bedside card can be covered by a self-adhesive foil cover	100 foils

Antigen determination of the ABO system

Art. No.	Product	Description	Packing
BG 1101	**Anti-A**	clone: sifin A-11H5	10 ml
BG 1111	**Anti-B**	clone: sifin B-6F9	10 ml
BG 1131	**Anti-AB**	clone: sifin A-5E10, sifin B-2D7	10 ml
BG 1202	**Anti-A_1, lectin**	Extract from seeds of *Dolichos biflorus*	5 ml
BG 1212	**Anti-H, lectin**	Extract from seeds of *Laburnum alpinum*	5 ml

Antigen determination of the Rh system

Art. No.	Product	Description	Packing
BG 1315	**Anti-D (IgM)**	clone: BS225	10 ml
BG 1354	**Anti-C**	clone: MS-24, P3X25513G8	5 ml
BG 1364	**Anti-c**	clone: MS-33	5 ml
BG 1334	**Anti-E**	clone: MS-258, 906	5 ml
BG 1344	**Anti-e**	clone: MS-16, MS-21, MS-63	5 ml
BG 1371	**Anti-C^w**	clone: MS-110	2 ml

Detection of additional blood grouping antigens

Art. No.	Product	Description	Packing
BG 1412	**Anti-K (Kell)**	clone: MS-56	5 ml
BG 1421	**Anti-k (cellano)**	for the anti human globulin test	2 ml
BG 1451	**Anti-M**	clone: sifin M-11H2	2 ml
BG 1461	**Anti-N**	clone: sifin N-20H12	2 ml

Anti-Human Globulin (Coombs)

Art. No.	Product	Description	Packing
BG 1510	**Anti-Human Globulin, polyspecific, dyed**	Globulin is used to detect in vivo sensitization of red blood cells in the direct antiglobulin test or to determine blood group antigens and antibodies, respectively (antibody detection test, cross matching) in the indirect antigoblulin test.	10 ml

Enzymes

Art. No.	Product	Description	Packing
BG 1612	**Papain-Cystein**	Enzyme solution is used for the detection of incomplete antibodies to blood group antigens or for the determination of blood group antigens by the one-stage enzyme test. It may be used in the compatibility test.	3 ml
BG 1613	**Bromelin**	Enzyme solution is used for the detection of incomplete antibodies to blood group antigens or for the determination of blood group antigens by the one-stage enzyme test. It causes increased agglutination especially in the Rhesus, Kidd, Lewis, Vel, P and ABO systems. It may be used in the compatibility test (cross matching) and in the antibody detection test. Bromelin is also useful in detection of very weak alloagglutinins when determining the ABO blood group.	10 ml

Blood-Group Determination on the automated Analyser PK7200® and PK7300®

Kits for the automated analyser PK7200® and PK7300®

Art. No.	Product	Description	Packing
BG 2000	**Kit AB0+D**	for 2000 tests Test Reagent Anti-A, clone: A003 Test Reagent Anti-B, clone: B005 Test Reagent Anti-AB, clone: BS63, BS85 Test Reagent Anti-D(1), clone: BS226 Test Reagent Anti-D(2), clone: BS232 Negative control	6 x 50 ml
BG 2100	**Kit 1 Rh+K**	for 2000 tests Test Reagent Anti-C(1), clone: MS-24 Test Reagent Anti-c(1), clone: MS-33 Test Reagent Anti-E(1), clone: MS-258, 906 Test Reagent Anti-e(1), clone: MS-16, MS-21, MS-63 Test Reagent Anti-K(1), clone: MS-56 Negative control	6 x 50 ml
BG 2200	**Kit 2 Rh+K**	for 2000 tests Test Reagent Anti-C(2), clone: MS-273 Test Reagent Anti-c(2), clone: MS-35 Test Reagent Anti-E(2), clone: MS-260, MS-12 Test Reagent-e(2), clone: MS-62, MS-69 Test Reagent Anti-K(2), clone: 601 Negative control	6 x 50 ml

Test reagents of Kit AB0+D for the automated analyser PK7200® and PK7300®

Art. No.	Product	Description	Packing
BG 2010	**Test Reagent Anti-A**	clone: A003	6 x 50 ml
BG 2020	**Test Reagent Anti-B**	clone: B005	6 x 50 ml
BG 2030	**Test Reagent Anti-AB**	clone: BS63, BS85	6 x 50 ml
BG 2040	**Test Reagent Anti-D(1)**	clone: BS226	6 x 50 ml
BG 2050	**Test Reagent Anti-D(2)**	clone: BS232	6 x 50 ml

Test reagents of Kit 1 Rh+K for the automated analyser PK7200® and PK7300®

Art. No.	Product	Description	Packing
BG 2110	**Test Reagent Anti-C(1)**	clone: MS-24	6 x 50 ml
BG 2120	**Test Reagent Anti-c(1)**	clone: MS-33	6 x 50 ml
BG 2130	**Test Reagent Anti-E(1)**	clone: MS-258, 906	6 x 50 ml
BG 2140	**Test Reagent Anti-e(1)**	clone: MS-16, MS-21, MS-63	6 x 50 ml
BG 2150	**Test Reagent Anti-K(1)**	clone: MS-56	6 x 50 ml

Test reagents of Kit 2 Rh+K for the automated analyser PK7200® and PK7300®

Art. No.	Product	Description	Packing
BG 2210	**Test Reagent Anti-C(2)**	clone: MS-273	6 x 50 ml
BG 2220	**Test Reagent Anti-c(2)**	clone: MS-35	6 x 50 ml
BG 2230	**Test Reagent Anti-E(2)**	clone: MS-260, MS-12	6 x 50 ml
BG 2240	**Test Reagent Anti-e(2)**	clone: MS-62, MS-69	6 x 50 ml
BG 2250	**Test Reagent Anti-K(2)**	clone: 601	6 x 50 ml

Further test reagents for the automated analyser PK7200® and PK7300®

Art. No.	Product	Description	Content
BG 2510	**Test Reagent Anti-A(2)**	clone: sifin A-11H5	6 x 50 ml
BG 2520	**Test Reagent Anti-B(2)**	clone: sifin B-6F9	6 x 50 ml
BG 2410	**Negative control**		6 x 50 ml

Monoclonal Antibodies for Blood Grouping

Monoclonal antibodies available as concentrates and bulk

MAb	Clone	Properties	Isotype
Anti-A	**A-11H5**	Murine monoclonal antibody strongly reacts with red blood cells of the blood groups A_1, A_2, A_1B and A_2B. Agglutinates A_3 red blood cells (mixed field agglutination), reaction with A_x red blood cells usually positive.	IgM
Anti-A	**A-5E10**	Murine monoclonal antibody strongly reacts with red blood cells of the blood groups A_1, A_2, A_1B and A_2B. Agglutinates A_3 red blood cells (mixed field agglutination), reaction with A_x red blood cells usually positive.	IgM
Anti-B	**B-6F9**	Murine monoclonal antibody strongly reacts with red blood cells of the blood groups B, A_1B and A_2B. Does not react with „acquired" B.	IgM
Anti-B	**B-2D7**	Murine monoclonal antibody strongly reacts with red blood cells of the blood groups B, A_1B and A_2B. Does not react with „acquired" B.	IgM
Anti-D	**BS225**	Human monoclonal antibody strongly reacts with red blood cells with normally expressed D antigen. Weak D red blood cells are agglutinated subject to the antigen density. Category VI is not detected among the partial D antigens.	IgM
Anti-D	**NaTH119**	Human monoclonal antibody strongly reacts with red blood cells with normally expressed D antigen. Weak D red blood cells (types 1-4) are agglutinated subject to the antigen density. Categories IV and VI are not detected among the partial D antigens.	IgM
Anti-D	**LOR-15C9**	Human monoclonal antibody strongly reacts with red blood cells with normally expressed D antigen. Weak D red blood cells (types 1-3) are agglutinated subject to the antigen density. Categories II, III, Va, VI and VII are agglutinated among the partial D antigens.	IgG
Anti-H	**A-46/B/B-10**	Murine monoclonal antibody strongly reacts with red blood cells of the blood groups O, A_2 and A_2B positive; with A_1 and A_1B weak positive or negative.	IgM
Anti-M	**M-11H2**	Murine monoclonal antibody specifically agglutinates red blood cells with M antigen.	IgG_1
Anti-N	**N-20H12**	Murine monoclonal antibody specifically agglutinates red blood cells with N antigen after correction of pH to 8.6 - 8.9.	IgG_{2b}

Bacteriological Test Reagents

DIAGNOSTICS WITH PASSION

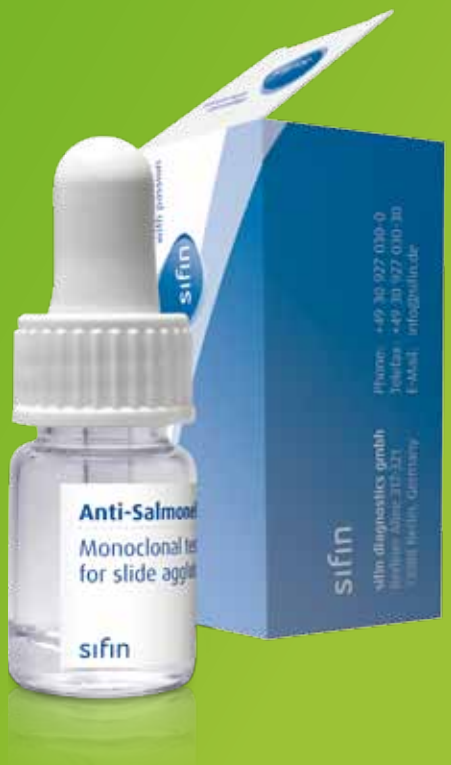
Are you looking for the serological confirmation of suspicious colonies?

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 screening

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
TR 1101	**Anti-Salmonella (A - 67 + Vi), omnivalent**	Used for initial testing of suspicious colonies to detect the presence of bacteria of the *Salmonella* genus.	liquid	1 ml
TR 1105			liquid	5 ml
TR 1111	**Anti-Salmonella I (A - E + Vi)**	Agglutinates salmonellae of the groups O:2 (A) to O:1,3,19 (E_4).	liquid	1 ml
TR 1115			liquid	5 ml
TR 1121	**Anti-Salmonella II (F - 67)**	Agglutinates salmonellae of the groups O:11 (F) to O:67.	lyophilised	1 ml
TR 1125			lyophilised	5 ml
TR 1141	**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.	liquid	1 ml
TR 1145			liquid	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
TR 1151	**Anti-Salmonella OMA**	(A, B, D, E, L)	liquid	1 ml
TR 1152			liquid	3 ml
TR 1161	**Anti-Salmonella OMB**	(C, F, G, H)	liquid	1 ml
TR 1162			liquid	3 ml
TR 1170	**Anti-Salmonella OMC**	(I, J, K, M, N, O, P)	liquid	1 ml
TR 1171	**Anti-Salmonella OMD**	(Q, R, S, T, U, V, W)	liquid	1 ml
TR 1172	**Anti-Salmonella OME**	(X, Y, Z, 51, 52, 53)	liquid	1 ml
TR 1173	**Anti-Salmonella OMF**	(54, 55, 56, 57, 58, 59)	liquid	1 ml
TR 1174	**Anti-Salmonella OMG**	(60, 61, 62, 63, 65, 66, 67)	liquid	1 ml
TR 1316	**Anti-Salmonella Vi**		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 (TR 1437, TR 5437).

Art. No.	Product	Description	Liquid | Lyo.	Packing
TR 1181	**Anti-Salmonella HMA**	(a, b, c, d, i, z_{10}, z_{29})	liquid	1 ml
TR 1182			liquid	3 ml
TR 1183	**Anti-Salmonella HMB**	(E, G)	liquid	1 ml
TR 1184			liquid	3 ml
TR 1185	**Anti-Salmonella HMC**	(k, y, z, L, Z_4, r)	liquid	1 ml
TR 1186			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 exclusively *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
TR 1201	**Anti-Salmonella Group B**	Records all antigen combinations of group O:4 (B).	liquid	1 ml
TR 5201			liquid	5 ml
TR 1202	**Anti-Salmonella Group C**	Records all strains of group O:7 (C_1) and O:8 (C_2-C_3).	liquid	1 ml
TR 1203	**Anti-Salmonella Group D**	Records all strains of group O:9 (D_1), O:9,46 (D_2) and O:9,46,27 (D_3).	liquid	1 ml
TR 5203			liquid	5 ml
TR 1204	**Anti-Salmonella Group E (O:3 complex)**	Records all strains of group O:3,10; O:3,15; O:3,15,34 (E_1) and O:1,3,19 (E_4).	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
TR 1301	**Anti-Salmonella O:2**	group A	liquid	1 ml
TR 1302	**Anti-Salmonella O:4**	group B	liquid	1 ml
TR 5302			liquid	5 ml
TR 1303	**Anti-Salmonella O:5**	group B	liquid	1 ml
TR 5303			liquid	5 ml
TR 1304	**Anti-Salmonella O:6_1**	group C_2-C_3	lyophilised	1 ml
TR 1305	**Anti-Salmonella O:7**	group C_1	liquid	1 ml
TR 1306	**Anti-Salmonella O:8**	group C_2-C_3	liquid	1 ml
TR 1307	**Anti-Salmonella O:9**	group D	liquid	1 ml
TR 5307			liquid	5 ml
TR 1308	**Anti-Salmonella O:10**	group E_1 and group E_4	liquid	1 ml
TR 1323	**Anti-Salmonella O:11**	group F	lyophilised	1 ml
TR 1325	**Anti-Salmonella O:13**	group G	lyophilised	1 ml
TR 1309	**Anti-Salmonella O:14**	group H, not group C_1	lyophilised	1 ml
TR 1310	**Anti-Salmonella O:15**	group E_1	liquid	1 ml
TR 1328	**Anti-Salmonella O:16**	group I	lyophilised	1 ml
TR 1329	**Anti-Salmonella O:17**	group J	lyophilised	1 ml
TS 1330	**Anti-Salmonella O:18**	group K	lyophilised	1 ml
TR 1311	**Anti-Salmonella O:19**	group E_4	liquid	1 ml
TR 1312	**Anti-Salmonella O:20**	group C_2-C_3	liquid	1 ml
TR 1331	**Anti-Salmonella O:21**	group L	lyophilised	1 ml
TS 1332	**Anti-Salmonella O:22**	group G	lyophilised	1 ml
TR 1335	**Anti-Salmonella O:25**	group H	lyophilised	1 ml
TR 1313	**Anti-Salmonella O:27**	group B and group D_3	liquid	1 ml
TR 1336	**Anti-Salmonella O:28**	group M	lyophilised	1 ml
TR 1339	**Anti-Salmonella O:30**	group N	lyophilised	1 ml
TR 1314	**Anti-Salmonella O:34**	group E_3	liquid	1 ml
TR 1341	**Anti-Salmonella O:35**	group O	lyophilised	1 ml
TR 1344	**Anti-Salmonella O:38**	group P	lyophilised	1 ml
TR 1345	**Anti-Salmonella O:39**	group Q	lyophilised	1 ml

Art. No.	Product	Description	Liquid | Lyo.	Packing
TR 1346	**Anti-Salmonella O:40**	group R	lyophilised	1 ml
TR 1347	**Anti-Salmonella O:41**	group S	lyophilised	1 ml
TR 1348	**Anti-Salmonella O:42**	group T	lyophilised	1 ml
TR 1349	**Anti-Salmonella O:43**	group U	lyophilised	1 ml
TR 1350	**Anti-Salmonella O:44**	group V	lyophilised	1 ml
TR 1351	**Anti-Salmonella O:45**	group W	lyophilised	1 ml
TR 1315	**Anti-Salmonella O:46**	group D_2	liquid	1 ml
TR 1353	**Anti-Salmonella O:47**	group X	lyophilised	1 ml
TR 1354	**Anti-Salmonella O:48**	group Y	lyophilised	1 ml
TR 1355	**Anti-Salmonella O:50**	group Z	lyophilised	1 ml
TR 1356	**Anti-Salmonella O:51**		lyophilised	1 ml
TR 1357	**Anti-Salmonella O:52**		lyophilised	1 ml
TR 1358	**Anti-Salmonella O:53**		lyophilised	1 ml
TR 1359	**Anti-Salmonella O:54**		lyophilised	1 ml
TR 1360	**Anti-Salmonella O:55**		lyophilised	1 ml
TR 1361	**Anti-Salmonella O:56**		lyophilised	1 ml
TR 1362	**Anti-Salmonella O:57**		lyophilised	1 ml
TR 1363	**Anti-Salmonella O:58**		lyophilised	1 ml
TR 1364	**Anti-Salmonella O:59**		lyophilised	1 ml
TR 1365	**Anti-Salmonella O:60**		lyophilised	1 ml
TR 1366	**Anti-Salmonella O:61**		lyophilised	1 ml
TR 1367	**Anti-Salmonella O:62**		lyophilised	1 ml
TR 1368	**Anti-Salmonella O:63**		lyophilised	1 ml
TR 1369	**Anti-Salmonella O:65**		lyophilised	1 ml
TR 1370	**Anti-Salmonella O:66**		lyophilised	1 ml
TR 1371	**Anti-Salmonella O:67**		lyophilised	1 ml

Monospecific test reagent Anti-Salmonella Vi

Identification of the Vi-antigen.

Art. No.	Product	Liquid | Lyo.	Packing
TR 1316	**Anti-Salmonella Vi**	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
TR 1401	**Anti-Salmonella H:a**	x	liquid	1 ml
TR 1402	**Anti-Salmonella H:b**	x	liquid	1 ml
TR 1403	**Anti-Salmonella H:c**	x	liquid	1 ml
TR 1404	**Anti-Salmonella H:d**	x	liquid	1 ml
TR 1405	**Anti-Salmonella H:E**	x	liquid	1 ml
TR 5405		x	liquid	5 ml
TR 1407	**Anti-Salmonella H:f**		lyophilised	1 ml
TR 1406	**Anti-Salmonella H:g**	x	liquid	1 ml
TR 5406		x	liquid	5 ml
TR 1408	**Anti-Salmonella H:g,m**	x	liquid	1 ml
TR 5408		x	liquid	5 ml
TR 1409	**Anti-Salmonella H:h**		liquid	1 ml
TR 1410	**Anti-Salmonella H:i**	x	liquid	1 ml
TR 5410		x	liquid	5 ml
TR 1411	**Anti-Salmonella H:k**	x	lyophilised	1 ml
TR 1412	**Anti-Salmonella H:L**	x	liquid	1 ml
TR 5412		x	liquid	5 ml
TS 1413	**Anti-Salmonella H:m**		lyophilised	1 ml
TR 1438	**Anti-Salmonella H:n**	x	liquid	1 ml
TS 1414	**Anti-Salmonella H:p**		lyophilised	1 ml
TS 1415	**Anti-Salmonella H:q**		lyophilised	1 ml
TR 1416	**Anti-Salmonella H:r**	x	liquid	1 ml
TS 1417	**Anti-Salmonella H:s**		lyophilised	1 ml
TS 1418	**Anti-Salmonella H:t**		lyophilised	1 ml
TS 1419	**Anti-Salmonella H:u**		lyophilised	1 ml
TS 1420	**Anti-Salmonella H:v**		lyophilised	1 ml
TS 1421	**Anti-Salmonella H:w**		lyophilised	1 ml
TS 1422	**Anti-Salmonella H:x**		lyophilised	1 ml
TR 1423	**Anti-Salmonella H:y**	x	liquid	1 ml
TR 1424	**Anti-Salmonella H:z**	x	liquid	1 ml
TS 1425	**Anti-Salmonella H:z_4,z_{23}**		lyophilised	1 ml

Art. No.	Product	Description	Phase induction	Liquid | Lyo.	Packing
TS 1426	**Anti-Salmonella H:z_6**			lyophilised	1 ml
TR 1427	**Anti-Salmonella H:z_{10}**		x	liquid	1 ml
TR 1439	**Anti-Salmonella H:z_{13}**	for use by reference labs		liquid	1 ml
TS 1428	**Anti-Salmonella H:z_{15}**			lyophilised	1 ml
TR 1440	**Anti-Salmonella H:z_{23}**			lyophilised	1 ml
TS 1429	**Anti-Salmonella H:z_{24}**			lyophilised	1 ml
TS 1449	**Anti-Salmonella H:z_{28}**			lyophilised	1 ml
TS 1430	**Anti-Salmonella H:z_{29}**			lyophilised	1 ml
TS 1431	**Anti-Salmonella H:z_{32}**			lyophilised	1 ml
TR 1445	**Anti-Salmonella H:z_{35}**		x	lyophilised	1 ml
TR 1447	**Anti-Salmonella H:z_{38}**		x	lyophilised	1 ml
TR 1448	**Anti-Salmonella H:z_{41}**		x	lyophilised	1 ml
TR 1437	**Anti-Salmonella H:1**		x	liquid	1 ml
TR 5437			x	liquid	5 ml
TR 1433	**Anti-Salmonella H:2**			lyophilised	1 ml
TR 5433				lyophilised	5 ml
TS 1434	**Anti-Salmonella H:5**			lyophilised	1 ml
TR 1435	**Anti-Salmonella H:6**			lyophilised	1 ml
TS 1436	**Anti-Salmonella H:7**			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
TS 1501	**Control antigen Salmonella Paratyphi A-OH**	2,12:a:[1,5] (Usually occurs as a monophasic variant.)	liquid	5 ml
TS 1502	**Control antigen Salmonella Paratyphi B-OH**	1,4,[5],12:b:1,2	liquid	5 ml
TS 1503	**Control antigen Salmonella Paratyphi C-OH**	6,7,[Vi]:c:1,5 (Use TS 1507 for Vi.)	liquid	5 ml
TS 1504	**Control antigen Salmonella Typhi-OH**	9,12, [Vi]:d- (Use TS 1507 for Vi.)	liquid	5 ml
TS 1505	**Control antigen Salmonella Typhimurium-OH**	1,4,[5],12:i:1,2 (Often occurs as a monophasic variant.)	liquid	5 ml
TS 1506	**Control antigen Salmonella Enteritidis-OH**	1,9,12:g,m:-	liquid	5 ml
TS 1507	**Control antigen Salmonella Vi**		liquid	5 ml

Salmonella Diagnostics

Salmonella O test antigens for the Widal reaction

For use in establishing the existence and determining the quantity of specific agglutinating *Salmonella* antibodies (or agglutinins) in human sera or sera of other origin in the Widal reaction. The test can be performed in test tubes or on a microtitre plate. The test antigens must be diluted 1:10 in PBS.

Art. No.	Product	Description	Liquid | Lyo.	Packing
TS 1606	**Paratyphi A-O test antigen**	(2,12)	liquid	10 ml
TS 1601	**Paratyphi B-O test antigen**	(1,4,5,12)	liquid	10 ml
TS 1607	**Paratyphi C-O test antigen**	(6,7)	liquid	10 ml
TS 1602	**Typhi O test antigen**	(9,12)	liquid	10 ml

Salmonella OH test antigens for the Widal reaction

The test with OH-test antigens can be performed in test tubes or on a microtitre plate. The test antigens must be diluted 1:10 in PBS.

Art. No.	Product	Description	Liquid | Lyo.	Packing
TS 1613	**Paratyphi A-OH test antigen**	(2,12:a:-)	liquid	10 ml
TS 1614	**Paratyphi B-OH test antigen**	(1,4,5,12:b:1,2)	liquid	10 ml
TS 1615	**Paratyphi C-OH test antigen**	(6,7:c:1,5)	liquid	10 ml
TS 1616	**Typhi OH test antigen**	(9,12:d:-)	liquid	10 ml
TS 1611	**Typhimurium OH test antigen**	(1,4,5,12:i:1,2)	liquid	10 ml
TS 1612	**Enteritidis OH test antigen**	(1,9,12:g,m:-)	liquid	10 ml

Salmonella H test antigens for the Widal reaction

H-test antigens are suitable only for the test tube test. The test antigens must be diluted 1:10 in PBS.

Art. No.	Product	Liquid | Lyo.	Packing
TS 1631	**H:a test antigen**	liquid	10 ml
TS 1632	**H:b test antigen**	liquid	10 ml
TS 1633	**H:c test antigen**	liquid	10 ml
TS 1603	**H:d test antigen**	liquid	10 ml

Control sera for the Salmonella O and OH test antigens

For use in system control and in checking the agglutinability of the *Salmonella* test antigens in the Widal reaction.
The test can be performed in test tubes or on a microtitre plate.

Art. No.	Product	Packing
TS 1626	**Anti-Salmonella Paratyphi A**	1 ml
TS 1604	**Anti-Salmonella Paratyphi B**	1 ml
TS 1627	**Anti-Salmonella Paratyphi C**	1 ml
TS 1605	**Anti-Salmonella Typhi**	1 ml
TS 1624	**Anti-Salmonella Typhimurium**	1 ml
TS 1625	**Anti-Salmonella Enteritidis**	1 ml

Control sera for the Salmonella H test antigens

For use in system control and in checking the agglutinability of the *Salmonella* test antigens in the Widal reaction. The test can be performed in test tubes only.

Art. No.	Product	Description	Packing
TS 1641	**Anti-Salmonella H:a**	(2,12)	1 ml
TS 1642	**Anti-Salmonella H:b**	(1,4,5,12)	1 ml
TS 1643	**Anti-Salmonella H:c**	(6,7)	1 ml
TS 1644	**Anti-Salmonella H:d**	(9,12)	1 ml

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
TR 1811	**Anti-Shigella I**	*S. flexneri*, type 1 to 6, group 3,4 (y), 6 and 7,8 (x) and *S. sonnei* S and F form (phase I and II)	lyophilised	1 ml
TR 1815			lyophilised	5 ml
TS 1821	**Anti-Shigella II**	*S. dysenteriae*, type 1 to 10	lyophilised	1 ml
TS 1825			lyophilised	5 ml
TS 1831	**Anti-Shigella III**	*S. boydii*, type 1 to 15	lyophilised	1 ml
TS 1901	**Anti-Shigella flexneri**	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
TS 2001	**Anti-Shigella dysenteriae type 1**	monospecific	lyophilised	1 ml
TS 2002	**Anti-Shigella dysenteriae type 2**	monospecific	lyophilised	1 ml
TS 2003	**Anti-Shigella flexneri type 1**	monospecific	lyophilised	1 ml
TS 2004	**Anti-Shigella flexneri type 2**	monospecific	lyophilised	1 ml
TS 2005	**Anti-Shigella flexneri type 3**	monospecific	lyophilised	1 ml
TS 2006	**Anti-Shigella flexneri type 4**	monospecific	lyophilised	1 ml
TS 2007	**Anti-Shigella flexneri type 5**	monospecific	lyophilised	1 ml
TS 2008	**Anti-Shigella flexneri type 6**	monospecific	lyophilised	1 ml
TS 2009	**Anti-Shigella flexneri group 3,4 (y)**	monospecific	liquid	1 ml
TS 2010	**Anti-Shigella flexneri group 6**	monospecific	lyophilised	1 ml
TS 2011	**Anti-Shigella flexneri group 7,8 (x)**	monospecific	lyophilised	1 ml
TR 2012	**Anti-Shigella sonnei S form**	phase I, monospecific	lyophilised	1 ml
TR 2013	**Anti-Shigella sonnei F form**	phase II, monospecific	lyophilised	1 ml
TR 2014	**Anti-Shigella sonnei S form and F form**	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
TS 1510	**Control antigen Shigella flexneri**	S. *flexneri* Type 1b, 2a, 3a, 4a	liquid	2 ml
TS 1511	**Control antigen Shigella dysenteriae**	S. *dysenteriae* Type 1, 2, 3, 7	liquid	2 ml
TS 1512	**Control antigen Shigella boydii**	S. *boydii* Type 1, 2, 5, 8	liquid	2 ml
TS 1513	**Control antigen Shigella sonnei**	S. *sonnei* S-form (phase I) S. *sonnei* 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
TS 1701	**Anti-Yersinia enterocolitica O 3**	lyophilised	1 ml
TS 1704	**Anti-Yersinia enterocolitica O 5**	lyophilised	1 ml
TS 1705	**Anti-Yersinia enterocolitica O 8**	lyophilised	1 ml
TS 1703	**Anti-Yersinia enterocolitica O 9**	lyophilised	1 ml
TS 1706	**Anti-Yersinia enterocolitica O 27**	lyophilised	1 ml

Yersinia enterocolitica O test antigens for the Widal reaction

For use in detecting the existence and determining the quantity of specific agglutinating *Yersinia enterocolitica* O antibodies (or agglutinins) in human sera or sera of other origin using the Widal reaction. The test is performed on a microtitre plate with dyed antigen.

Art. No.	Product	Liquid | Lyo.	Packing
TS 1721	**Yersinia enterocolitica-O test antigen (3)**	lyophilised	3 ml
TS 1724	**Yersinia enterocolitica-O test antigen (5)**	lyophilised	3 ml
TS 1723	**Yersinia enterocolitica-O test antigen (9)**	lyophilised	3 ml

Control sera Anti-Yersinia for the Widal reaction

For use in system control and in checking the agglutinability of the *Yersinia enterocolitica* test antigens in the Widal reaction. The test is performed on a microtitre plate.

Art. No.	Product	Liquid | Lyo.	Packing
TS 1733	**Anti-Yersinia enterocolitica O 3**	lyophilised	1 ml
TS 1734	**Anti-Yersinia enterocolitica O 5**	lyophilised	1 ml
TS 1735	**Anti-Yersinia enterocolitica O 9**	lyophilised	1 ml

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
TS 2111	**Anti-Coli I**	O 26:K 60, O 44:K 74, O 114:K90, O 125:K 70, O 142:K 86, O 158:K -	lyophilised	1 ml
TS 2115			lyophilised	5 ml
TR 2121	**Anti-Coli II**	O 55:K 59, O 86:K 61, O 91:K -, O 111:K 58, O 119:K 69, O 126:K 71, O 127:K 63, O 128:K 67	lyophilised	1 ml
TR 2125			lyophilised	5 ml
TR 2131	**Anti-Coli III**	O 25:K 11, O 78:K 80, O 103:K -, O 118:K -, O 124:K 72, O 145:K -, O 157:K -, O 164:K -	lyophilised	1 ml
TR 2135			lyophilised	5 ml

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
TS 2201	**Anti-Coli O 25:K 11**	lyophilised	1 ml
TS 2202	**Anti-Coli O 26:K 60**	lyophilised	1 ml
TS 2203	**Anti-Coli O 44:K 74**	lyophilised	1 ml
TS 2204	**Anti-Coli O 55:K 59**	lyophilised	1 ml
TR 2205	**Anti-Coli O 78:K 80**	lyophilised	1 ml
TS 2206	**Anti-Coli O 86:K 61**	lyophilised	1 ml
TS 2222	**Anti-Coli O 91:K -**	lyophilised	1 ml
TS 2216	**Anti-Coli O 103:K -**	lyophilised	1 ml
TS 2207	**Anti-Coli O 111:K 58**	lyophilised	1 ml
TS 2208	**Anti-Coli O 114:K 90**	lyophilised	1 ml
TS 2220	**Anti-Coli O 118:K -**	lyophilised	1 ml
TS 2209	**Anti-Coli O 119:K 69**	lyophilised	1 ml
TR 2210	**Anti-Coli O 124:K 72**	lyophilised	1 ml
TS 2211	**Anti-Coli O 125:K 70**	lyophilised	1 ml
TS 2212	**Anti-Coli O 126:K 71**	lyophilised	1 ml
TS 2213	**Anti-Coli O 127:K 63**	lyophilised	1 ml
TS 2214	**Anti-Coli O 128:K 67**	lyophilised	1 ml
TS 2215	**Anti-Coli O 142:K 86**	lyophilised	1 ml
TS 2221	**Anti-Coli O 145:K -**	lyophilised	1 ml
TR 2218	**Anti-Coli O 157:K -**	lyophilised	1 ml
TS 2219	**Anti-Coli O 158:K -**	lyophilised	1 ml
TS 2217	**Anti-Coli O 164:K -**	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
TR 2311	**Anti-Coli A**	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
TS 2401	**Anti-Coli O 1**	monospecific	lyophilised	1 ml
TS 2501	**Gruber Widal Serum Anti-Coli O 1**	for the confirmation test	lyophilised	1 ml
TS 2402	**Anti-Coli O 2**	monospecific	lyophilised	1 ml
TS 2502	**Gruber Widal Serum Anti-Coli O 2**	for the confirmation test	lyophilised	1 ml
TS 2403	**Anti-Coli O 18**	monospecific	lyophilised	1 ml
TS 2503	**Gruber Widal Serum Anti-Coli O 18**	for the confirmation test	lyophilised	1 ml
TR 2205	**Anti-Coli O 78:K 80**	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
TS 2601	**Anti-Coli C**	polyspecific (O 9:K 35, O 101:K 28, O 101:K 30, O 101:K 32) Contains antibodies directed against the *E. coli* types listed as monospecific (TS 2611, TS 2612, TS 2613, TS 2614) and the fimbrial antigen F 5 (K 99).	liquid	1 ml
TS 2615	**Anti-Coli F 5 (K 99)**	monospecific	liquid	1 ml
TS 2611	**Anti-Coli O 9:K 35**	monospecific	liquid	1 ml
TS 2612	**Anti-Coli O 101:K 28**	monospecific	liquid	1 ml
TS 2613	**Anti-Coli O 101:K 30**	monospecific	liquid	1 ml
TS 2614	**Anti-Coli O 101:K 32**	monospecific	liquid	1 ml
TR 2205	**Anti-Coli O 78:K 80**	monospecific	lyophilised	1 ml
TN 1040	**Minca Agar, modified**	see also dehydrated culture media		500 g
TN 1334	**Minca Supplement**	see also supplements		12 x 1 vial

E. coli relevant to veterinary medicine

Coli diagnostics in young pigs

The test sera are used to test for the presence of type-specific antigens with *Escherichia coli* isolates from pigs. 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 (Serotyping). First carry out a screening agglutination with the polyspecific test serum Anti-Coli P. If the reaction with the polyspecific test serum is positive, the isolate must then be typed with the monospecific test sera.

Art. No.	Product	Description	Liquid | Lyo.	Packing
TS 2701	**Anti-Coli P**	polyspecific (O 8:K 87, O 138:K 81, O 139:K 82, O 141:K 85, O 147:K 89, O 149:K 91) Contains antibodies directed against the *E. coli* types listed as monospecific (TS 2711, TS 2712, TS 2713, TS 2714, TS 2715, TS 2716) and the fimbrial antigen F 4 (K 88).	liquid	1 ml
TS 2717	**Anti-Coli F 4 (K 88)**	monospecific	liquid	1 ml
TS 2711	**Anti-Coli O 8:K 87**	monospecific	liquid	1 ml
TS 2712	**Anti-Coli O 138:K 81**	monospecific	liquid	1 ml
TS 2713	**Anti-Coli O 139:K 82**	monospecific	liquid	1 ml
TS 2714	**Anti-Coli O 141:K 85**	monospecific	liquid	1 ml
TS 2715	**Anti-Coli O 147:K 89**	monospecific	liquid	1 ml
TS 2716	**Anti-Coli O 149:K 91**	monospecific	liquid	1 ml

Test tube stand

Test tube stand for 20 vials

Art. No.	Product	Description	Packing
VS 9998	**Test tube stand**	for 20 vials 16 cm x 15 cm x 8 cm	1 unit

Culture Media

DIAGNOSTICS WITH PASSION

Culture media at first-hand

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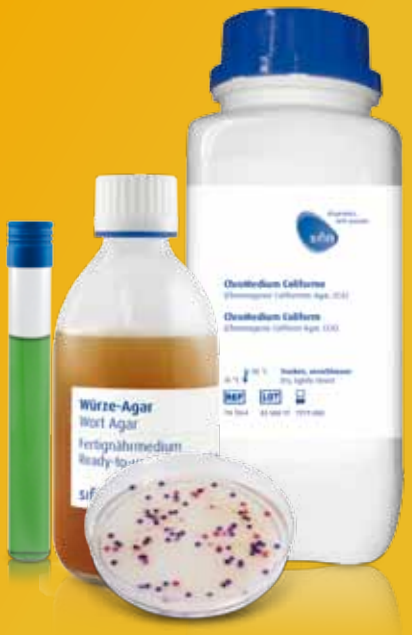
Thus, you are optimally equipped for the analysis of veterinary or human samples. Special media for food, water, pharmaceutical products complete the portfolio.

Do you have a specific request? Or are you looking for a supplier of media based on your own formulation?
We develop and produce according to your demand.

Our portfolio comprises:

- Dehydrated culture media
- Supplements
- Additives
- Detection reagents
- Ready-to-use culture media
- Base materials



Dehydrated Culture Media

A

Art. No.	Product	Description	Packing
TN 1294	**Alkaline Peptone Water with 2 % Sodium Chloride (APW)**	for 15.2 l culture medium (33.0 g for 1 l culture medium) Enrichment of pathogenic vibrions.	500 g
TN 1103	**Azide Glucose Broth**	for 7.4 l culture medium: single strength (70.0 g for 1 l medium) Cultivation of enterococci from water (acc. to § 64 German Food and Feed Code) and waste water.	500 g

B

Art. No.	Product	Description	Packing
TN 1245	**Bacillus Cereus Agar (Base) (PEMBA)**	for 12.5 l culture medium (39.9 g for 1 l culture medium) Isolation and colony count of *Bacillus cereus* in foodstuffs. Addition of Egg Yolk Emulsion TN 1316 and Bacillus Cereus Selective Supplement TN 1315.	500 g
TN 1104	**Baird Parker Agar (Base)**	for 7.9 l culture medium (63.0 g for 1 l culture medium) Isolation and differentiation of *Staphylococcus aureus* from foodstuffs (acc. to § 64 German Food and Feed Code). Addition of Egg Yolk Tellurite Emulsion TN 1310.	500 g
TN 1133 TN 1249	**Bile Chrysoidine Glycerol Agar (Base) (GCG Agar)**	for 11.7 l culture medium (42.8 g for 1 l culture medium) for 116.8 l culture medium (42.8 g for 1 l culture medium) Isolation and differentiation of *Enterobacteriaceae* and various aerobe gram-negative bacteria from clinical material (especially urinary diagnostics and „Variadiagnostik"). Addition of urea TN 1308 and glycerin TN 1424.	500 g 5 kg
TN 1237	**Bile Chrysoidine Glycerol Agar (Base) with MUG**	for 11.7 l culture medium (42.9 g for 1 l culture medium) Isolation and differentiation of *Enterobacteriaceae* and various aerobe gram-negative bacteria from clinical material. Advantage: ß-D-glucuronidase-positive *E. coli* strains are easy to detect by fluorescence. Addition of urea TN 1308 and Glycerin TN 1424.	500 g
TN 1276	**Bile Esculin Azide Agar (BEM, Bile Esculin Medium)**	for 9.3 l culture medium (53.7 g for 1 l culture medium) Selective detection and determination of the germ count of enterococci from water and other material.	500 g
TN 1106	**Blood Agar (Base)**	for 13.9 l culture medium (36.0 g for 1 l culture medium) Used to produce blood plates and boiled blood plates, for the isolation and breeding of various fastidious and above all pathogenic microorganisms, and for determining their haemolysis forms. Addition of blood.	500 g

Art. No.	Product	Description	Packing
TN 1216	**Brain Heart Infusion Broth (BHI Broth, Brain Heart Glucose Broth)**	for 13.5 l culture medium (37.0 g for 1 l medium) Cultivation of various fastidious microorganisms (acc. to § 64 German Food and Feed Code).	500 g
TN 1109	**Brilliant Green Bile Lactose Broth (BRILA Broth)**	for 12.5 l culture medium: single strength (40.0 g for 1 l medium) for 6.3 l culture medium: double strength (80.0 g for 1 l medium) Selective enrichment of *Escherichia coli* and other coliforms in water, dairy products, foodstuffs (acc. to § 64 German Food and Feed Code) and from other test materials. Culture medium is used for confirmation of *E. coli* and coliform bacteria in accordance with IDF-Standard 73B:1998.	500 g
TN 1110	**Brilliant Green Phenol Red Agar acc. to Edel and Kampelmacher (BPLS Agar, modified)**	for 10.1 l culture medium (49.7 g for 1 l culture medium) Selective culture medium for use of *Salmonella* from foodstuffs (acc. to § 64 German Food and Feed Code).	500 g
TN 1111	**Brilliant Green Phenol Red Agar (BPLS Agar acc. to Kauffmann, modified)**	for 10.0 l culture medium (50.0 g for 1 l culture medium) Isolation and identification of salmonellae (with the exception of S. *Typhi*) from meat and other foodstuffs (acc. to § 64 German Food and Feed Code) as well as for the examination of pharmaceutical preparations.	500 g
TN 1113	**Bromothymol Blue Broth (Base)**	for 33.3 l culture medium (15.0 g for 1 l culture medium) Culture medium for testing carbohydrate utilisation after addition of carbohydrates, especially by fast-growing bacteria, e.g. *Enterobacteriaceae*.	500 g
TN 1078	**Buffered Nitrate Motility Medium**	for 25.0 l culture medium (20.0 g for 1 l culture medium) Confirmation of *Clostridium perfringens* (acc. to § 64 German Food and Feed Code). Addition of glycerin TN 1424.	500 g
TN 1137 TN 1226	**Buffered Peptone Water (BPW)**	for 25.0 l culture medium (20.0 g for 1 l culture medium) for 250.0 l culture medium (20.0 g for 1 l culture medium) Pre-enrichment of salmonellae from milk, dairy products and of other microorganisms from other foodstuffs.	500 g 5 kg
TN 1025 TN 1046	**Buffered Sodium Chloride Peptone Solution pH 7.0 acc. to harm. EP/USP/JP**	for 34.2 l culture medium (14.6 g for 1 l culture medium) for 342.4 l culture medium (14.6 g for 1 l culture medium) Dilution fluid for samples in case of microbiological contamination. Culture medium for testing non-sterile products based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g 5 kg

Dehydrated Culture Media

C

Art. No.	Product	Description	Packing
TN 1031 TN 1033	**Casein Soya Bean Digest Agar acc. to harm. EP/USP/JP (CASO Agar acc. to harm. EP/USP/JP)**	for 12.5 l culture medium (40.0 g for 1 l culture medium) for 125.0 l culture medium (40.0 g for 1 l culture medium) Universal culture medium, inhibitor-free and indicator-free, for a wide range of applications. Culture medium for testing non-sterile products based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g 5 kg
TN 1263 TN 1255	**Casein Soya Bean Digest Broth acc. to harm. EP/USP/JP (CASO Broth acc. to harm. EP/USP/JP)**	for 16.7 l culture medium (30.0 g for 1 l culture medium) for 166.7 l culture medium (30.0 g for 1 l culture medium) Universal culture medium for the cultivation of bacteria and fungi. Suitable for cold fitration. Culture medium for testing non-sterile products based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g 5 kg
TN 1273	**CATC Agar (Base) (Citrate Azide Tween Carbonate Agar)**	for 9.2 l culture medium (54.5 g for 1 l culture medium) Isolation of enterococci from foodstuffs. Addition of Tween® 80 TN 1422.	500 g
TN 1024	**Cetrimide Agar acc. to harm. EP/USP/JP**	for 11.0 l culture medium (45.3 g for 1 l culture medium) Test for *Pseudomonas aeruginosa*. Culture medium for testing non-sterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006). Addition of glycerin TN 1424.	500 g
TN 1114	**China-blue Lactose Agar**	for 13.0 l culture medium (38.5 g for 1 l culture medium) Determination of the colony count and for the differentiation of bacteria from milk.	500 g
TN 1064	**ChroMedium Coliform (Chromogenic Coliform Agar, CCA)**	for 17.3 l culture medium (28.9 g for 1 l culture medium) Chromogenic selective agar to detect *E. coli* and coliform bacteria from water with low accompanying flora (acc. to the draft standard DIN EN ISO 9308-1:2012) and from processed food.	500 g
TN 1014	**ChroMedium MLGA (Membrane Lactose Glucuronide Agar)**	for 5.7 l culture medium (88.0 g for 1 l culture medium) Differentiation and enumeration of *E. coli* and other coliforms by a single membrane filtration technique.	500 g
TN 1115	**CLED Agar (Brolacin Agar)**	for 14.5 l culture medium (34.3 g for 1 l culture medium) Determination of the colony count, isolation and initial differentiation of urinary tract pathogens.	500 g
TN 1116	**Clostridial Differential Broth (DRCM)**	for 16.6 l culture medium: single strength (30.1 g for 1 l medium) for 8.3 l culture medium: double strength (60.2 g for 1 l medium) Determination of the colony count of *Clostridia* by means of the MPN method in foodstuffs and other materials.	500 g
TN 1118	**Columbia Agar (Base) (Columbia Blood Agar Base)**	for 12.5 l culture medium (40.0 g for 1 l culture medium) Cultivation of fastidious microorganisms and to detect haemolysis. Addition of blood.	500 g
TN 1191	**Columbia Agar acc. to harm. EP/USP/JP**	for 12.2 l culture medium (41.0 g for 1 l culture medium) Test for *Clostridia*. Culture medium for testing non-sterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006). Addition of blood.	500 g
TN 1197	**Count Agar, sugar-free acc. to FIL-IDF**	for 14.3 l culture medium (35.0 g for 1 l culture medium) Determination of the germ count in milk and dairy products.	500 g

D

Art. No.	Product	Description	Packing
TN 1054	**Dermatophytes Agar, modified**	for 10.8 l culture medium (46.5 g for 1 l culture medium) Culture medium with Chloramphenicol and Cycloheximide included. Selective detection of dermatophytes and *Candida albicans*. No supplements necessary.	500 g
TN 1121	**Desoxycholate Citrate Agar, modified (Leifson Agar, DCLS Agar, modified)**	for 10.1 l culture medium (49.5 g for 1 l culture medium) Detection and isolation of salmonellae and shigellae.	500 g
TN 1124	**DEV Gelatin Agar**	for 11.1 l culture medium (45.0 g for 1 l culture medium) Used in water and waste water testing for the determination of the complete germ count and to detect gelatinase secreting cells.	500 g
TN 1127 TN 1228	**DEV Lactose Peptone Broth**	for 14.3 l culture medium (35.0 g for 1 l culture medium) for 142.9 l culture medium (35.0 g for 1 l culture medium) Enrichment and determination of the germ count of *E. coli* and coliform bacteria in water.	500 g 5 kg
TN 1128 TN 1248	**DEV Nutrient Agar**	for 14.3 l culture medium (35.0 g for 1 l culture medium) for 142.9 l culture medium (35.0 g for 1 l culture medium) Determination of complete germ counts in water acc. to DIN 38411 and § 64 LFGB German Food and Feed Code.	500 g 5 kg
TN 1013	**DIASSALM (Diagnostic Semi-Solid Salmonella Agar)**	for 8.7 l culture medium (57.2 for 1 l culture medium) Semi-solid culture medium for the detection of motile salmonellae from food samples and other test material.	500 g
TN 1243 TN 1244	**Double Buffered Peptone Water (Peptone Water Double Buffered)**	for 20.0 l culture medium (25.0 g for 1 l culture medium) for 200 l culture medium (25.0 g for 1 l culture medium) Pre-enrichment of pathogenic *Enterobacteriaceae* from foodstuffs and other test material, in particular with highly sour or acid-producing products.	500 g 5 kg

E

Art. No.	Product	Description	Packing
TN 1130	**Endo Agar (Lactose Fuchsin Sulfite Agar)**	for 14.5 l culture medium (34.6 g for 1 l culture medium) Detection and isolation of *Enterobacteriaceae*. No supplements necessary.	500 g
TN 1236	**Enterobacteriaceae Enrichment Broth-Mossel acc. to harm. EP/USP/JP**	for 11.5 l culture medium (43.4 g for 1 l culture medium) Test for bile-tolerant gram-negative bacteria. Culture medium for testing non-sterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1132	**Enterococci Selective Agar acc. to Slanetz-Bartley (Enterococci Agar)**	for 12.0 l culture medium (41.5 g for 1 l culture medium) Isolation and identification of enterococci especially from water (acc.to DIN EN ISO 7899-2) and from foodstuffs (§ 64 German Food and Feed Code).	500 g

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Art. No.	Product	Description	Packing
TN 1200	**Eosin Methylene Blue Lactose Saccharose Agar (EMB Agar, Levine Agar)**	for 15.4 l culture medium (32.5 g for 1 l culture medium) Isolation of pathogenic *Enterobacteriaceae*, in particular salmonellae and shigellae, and for the identification of *Candida albicans*.	500 g

F

Art. No.	Product	Description	Packing
TN 1257	**Fraser Broth (Base)**	for 8.7 l culture medium (57.4 g for 1 l culture medium) Selective enrichment and the detection of *Listeria* spp. from foodstuffs (acc. to § 64 German Food and Feed Code) and from environmental materials. Addition of Fraser Selective Supplement TN 1318 or ½ Fraser Selective Supplement TN 1319.	500 g
TN 1035	**Fraser Broth Complete**	for 8.6 l culture medium (57.9 g for 1 l culture medium) Selective enrichment of *Listeria* spp. from foodstuffs (acc. to § 64 German Food and Feed Code) and from environmental material. No supplements necessary.	500 g
TN 1034 TN 1037	**½ Fraser Broth Complete**	for 8.6 l culture medium (57.9 g for 1 l culture medium) for 86.3 l culture medium (57.9 g for 1 l culture medium) Selective enrichment of *Listeria* spp. from foodstuffs (acc. to § 64 German Food and Feed Code) and from environmental material. No supplements necessary.	500 g 5 kg

G

Art. No.	Product	Description	Packing
TN 1079	**Gelatin Lactose Medium**	for 3.2 l culture medium (155.0 g for 1 l culture medium) Confirmation of *Clostridium perfringens* (acc. to § 64 German Food and Feed Code).	500 g
TN 1086	**Glucose Agar**	for 13.0 l culture medium (38.5 g for 1 l culture medium) Detection and colony count of *Enterobacteriaceae* in food.	500 g
TN 1140	**Glucose Nutrient Broth**	for 17.5 l culture medium (28.5 g for 1 l culture medium) Used for the detection of aerobe bacteria, especially when testing for sterility.	500 g
TN 1139	**Glucose Yeast Extract Cysteine Agar (Base) acc. to Beerens**	for 13.8 l culture medium (36.3 g for 1 l culture medium) Cultivation of anaerobes. Blood addition necessary.	500 g
TN 1271	**GSP Agar (Base) (Glutamate Starch Phenol Red Agar, Pseudomonas Aeromonas Agar acc. to Kielwein)**	for 11.1 l culture medium (44.9 g for 1 l culture medium) Detection of *Pseudomonas* sp. and *Aeromonas* sp. in all kinds of foodstuffs.	500 g

H

Art. No.	Product	Description	Packing
TN 1145	**HIB Medium (Base) (Urea Indole Motility Medium)**	for 5.4 l culture medium (28.0 g for 1 l culture medium) Differentiation of *Enterobacteriaceae* by means of detection of urea splitting, indole formation and motility. Addition of urea TN 1308.	150 g

K

Art. No.	Product	Description	Packing
TN 1217	**Kanamycin Esculin Azide Agar (KAA Agar)**	for 11.7 l culture medium (42.7 g for 1 l culture medium) Isolation, differentiation and determination of the colony count of enterococci from foodstuffs, water and other test material. No supplements necessary.	500 g
TN 1218	**Kanamycin Esculin Azide Broth (KAA Broth)**	for 15.3 l culture medium (32.7 g for 1 l culture medium) Selective Broth for the cultivation of enterococci. No supplements necessary.	500 g
TN 1287	**King's Agar (Base)**	for 2.7 l culture medium (36.9 g for 1 l culture medium) Detection and determination of the germ count of fluorescing bacteria in water, in particular of *Pseudomonas aeruginosa* (German Food and Feed Code). Addition of glycerin TN 1424.	100 g
TN 1146	**Kligler Iron Agar (KIA, Double Sugar Iron Agar acc. to Kligler)**	for 10.1 l culture medium (49.6 g for 1 l culture medium) Differentiation of gram-negative bacteria, in particular *Enterobacteriaceae*. Urea TN 1308 may be added.	500 g

L

Art. No.	Product	Description	Packing
TN 1151	**Lactose Broth (Lactose Monohydrate Broth)**	for 38.5 l culture medium (13.0 g for 1 l culture medium) Cultivation and identification of coliform bacteria, in particular *E. coli* in water, food, pharmaceutical products and raw materials.	500 g
TN 1278	**Lactose TTC Agar with Tergitol-7 (Tergitol-7 TTC Agar)**	for 9.4 l culture medium (53.2 g for 1 l culture medium) Isolation and differentiation of *E. coli* and coliform bacteria from water by means of the membrane filtration method. No supplements necessary.	500 g
TN 1152	**Lauryl Sulfate Broth (Lauryl Sulfate Tryptose Lactose Broth)**	for 14.0 l culture medium (35.6 g for 1 l culture medium) Detection and determination of the germ count of coliform bacteria from water, waste water, foodstuffs and dairy products.	500 g
TN 1153	**Lauryl Sulfate Tryptose Broth with Tryptophan and MUG (LST/MUG Medium)**	for 13.6 l culture medium: single strength (36.7 g for 1 l medium) for 6.8 l culture medium: double strength (73.4 g for 1 l medium) Detection and determination of the germ count of coliform bacteria from water, waste water, foodstuffs and dairy products.	500 g
TN 1048	**LB Agar (Luria-Bertani Agar acc. to Miller)**	for 13.5 l culture medium (37.0 g for 1 l culture medium) Cultivation of *E. coli* in fermentation and molecular biology.	500 g

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Art. No.	Product	Description	Packing
TN 1049	**LB Broth (Luria-Bertani Medium acc. to Miller)**	for 20.0 l culture medium (25.0 g for 1 l culture medium) Cultivation of *E. coli* in fermentation and molecular biology.	500 g
TN 1066	**Linden Grain Medium**	for 847.5 l culture medium (29.5 g for 1 l culture medium) Cultivation of environmental germs, e.g. when testing beverage bottling intallations.	25 kg
TN 1154	**Lysine Decarboxylase Broth (LDC Broth)**	for 5.5 l culture medium (9.1 g for 1 l culture medium) Detection of lysine decarboxylase production by salmonellae and certain other *Enterobacteriaceae*.	50 g

M

Art. No.	Product	Description	Packing
TN 1156	**MacConkey Agar**	for 10.3 l culture medium (48.5 g for 1 l culture medium) Isolation of *Enterobacteriaceae* from stool, urine, food, and waste water samples and other materials, also in cases involving a high incidence of salmonellae and shigellae.	500 g
TN 1075 TN 1074	**MacConkey Agar acc. to harm. EP/USP/JPP**	for 10.0 l culture medium (50.0 g for 1 l culture medium) for 100.0 l culture medium (50.0 g for 1 l culture medium) Test for *Escherichia coli*. Culture medium for testing nonsterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g 5 kg
TN 1027	**MacConkey Broth acc. to harm. EP/USP/JP**	for 14.3 l culture medium (35.0 g for 1 l culture medium) Test for *Escherichia coli*. Culture medium for testing nonsterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1157	**Magnesium Chloride Malachite Green Broth acc. to Rappaport-Vassiliadis (RV Medium)**	for 15.0 l culture medium (33.4 g for 1 l culture medium) Used for selective enrichment during isolation of *salmonellae* from foodstuffs and environmental materials.	500 g
TN 1158	**Malachite-green Broth**	for 56.8 l culture medium (8.8 g for 1 l culture medium) Detection of *Pseudomonas aeruginosa* from water (acc. to § 64 German Food and Feed Code). No supplements necessary.	500 g
TN 1267	**Malt Extract Agar (Wort Peptone Agar)**	for 10.0 l culture medium (50.0 g for 1 l culture medium) Detection, isolation and determination of the germ count of yeasts and fungi in foodstuffs and other test materials.	500 g

Art. No.	Product	Description	Packing
TN 1166	**Mannitol Salt Agar acc. to harm. EP/USP/JP**	for 4.5 l culture medium (111.0 g for 1 l culture medium) Test for *Staphylococcus aureus*. Culture medium for testing non-sterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1288	**m-CP Agar (Base) (Chromogenic Membrane Filtration Clostridium perfringens Agar)**	for 7.3 l culture medium (68.1 g for 1 l culture medium) Used to detect *Clostridium perfringens* (including spores) in water. Addition of m-CP-Selective Supplement TN 1330.	500 g
TN 1161	**Methyl-red Voges Proskauer Broth (MRVP)**	for 8.8 l culture medium (17.0 g for 1 l culture medium) Used to differentiate the *coli*-aerogenes group by means of the methyl red test and the Voges-Proskauer reaction.	150 g
TN 1040	**Minca Agar, modified**	for 18.9 l culture medium (26.4 g for 1 l culture medium) Cultivation of *E. coli* relevant to veterinary medicine (young cattles). Addition of Minca Supplement TN 1334.	500 g
TN 1071	**Modified Scholtens' Broth (MSB)**	for 17.0 l culture medium (29.4 g for 1 l culture medium) Used to detect and enumerate somatic coliphages in all kinds of water, sediments and sludges (DIN EN ISO 10705-2).	500 g
TN 1041	**Modified Soybean Casein Digest Broth (Mod. Tryptic Soy Broth, m-TSB)**	for 15.2 l culture medium (33.0 g for 1 l culture medium) Selective enrichment of *E. coli* O 157 from food samples (§ 64 German Food and Feed Code) and from faeces acc. to DIN EN ISO 16654. Novobiocin Selective Supplement may be added.	500 g
TN 1201	**MRS Agar (Base) (Lactobacillus Agar acc. to de Man, Rogosa and Sharpe)**	for 8.0 l culture medium (62.3 g for 1 l culture medium) Enrichment, cultivation and determination of the germ count of all *Lactobacillus* species from meat, milk and dairy products (acc. to § 64 German Food and Feed Code) and from other test materials. Addition of Tween® 80 TN 1422.	500 g
TN 1068	**MRS Agar (Base) with pH 5.7**	for 7.8 l culture medium (64.3 g for 1 l culture medium) Enrichment, cultivation and determination of the germ count of all *Lactobacillus* species from meat, milk and dairy products (acc. to § 64 German Food and Feed Code) and from other test materials. Addition of Tween 80® TN 1422.	500 g
TN 1205	**MRS Broth (Base)**	for 9.7 l culture medium (51.3 g for 1 l culture medium) Enrichment, cultivation and determination of the germ count of all *Lactobacillus* species from meat, milk and dairy products (acc. to § 64 German Food and Feed Code) and from other test materials. Addition of Tween® 80 TN 1422.	500 g
TN 1272	**MSRV Medium Base (Modified Semi-Solid Rappaport Vassiliadis Medium Base)**	for 15.8 l culture medium (31.7 g for 1 l culture medium) Semi-solid culture medium for the detection of motile salmonellae from food samples and other test material. Addition of Novobiocin Selective Supplement TN 1324.	500 g
TN 1162 TN 1250	**Mueller Hinton Agar (MHA)**	for 13.2 l culture medium (38.0 g for 1 l culture medium) for 131.6 l culture medium (38.0 g for 1 l culture medium) For use in the antimicrobial sensitivity test using the agar diffusion method.	500 g 5 kg

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Art. No.	Product	Description	Packing
TN 1163	**Mueller Hinton Broth (MHB)**	for 23.8 l culture medium (21.0 g for 1 l culture medium) Used to perform the sensitivity test according to the macrodilution and microdilution methods (MIC test).	500 g
TN 1291	**MYP Agar (Base) (Cereus Selective Agar Base acc. to Mossel)**	for 11.6 l culture medium (43.0 g for 1 l culture medium) Determination of the colony count, detection and isolation of *Bacillus cereus* from foodstuffs (acc. to § 64 German Food and Feed Code). Addition of Egg Yolk Emulsion TN 1316 and Bacillus Cereus Selective Supplement TN 1315.	500 g

N

Art. No.	Product	Description	Packing
TN 1164 TN 1165	**Nutrient Agar I**	for 14.3 l culture medium (35.0 g for 1 l culture medium) for 142.9 l culture medium (35.0 g for 1 l culture medium) Universal culture medium for the cultivation of fastidious microorganisms. Blood may be added.	500 g 5 kg
TN 1168	**Nutrient Agar III**	for 26.3 l culture medium (19.0 g for 1 l culture medium) Cultivation of suspicious bacteria from test materials for subsequent use in biochemical or serological identification.	500 g
TN 1176	**Nutrient Agar acc. to the German drinking water regulation and Food and Feed Code**	for 20 l culture medium (25.0 g for 1 l culture medium) Universal culture medium for cultivation of fastidious microorganisms (acc. to the German drinking water regulation (TrinkwV) and German Food and Feed Code (§ 64 LFGB)). Culture medium is composed in accordance with DIN EN 16266. Blood may be added.	500 g
TN 1171 TN 1251	**Nutrient Broth**	for 62.5 l culture medium (8.0 g for 1 l culture medium) for 625 l culture medium (8.0 g for 1 l culture medium) Cultivation of less fastidious microorganisms.	500 g 5 kg
TN 1172	**Nutrient Broth I**	for 20 l culture medium (25.0 g for 1 l culture medium) Nutrient-rich culture medium for cultivation of microorganisms, including fastidious microorganisms.	500 g
TN 1174	**Nutrient Broth II**	for 33.3 l culture medium (15.0 g for 1 l culture medium) Cultivation of microorganisms.	500 g

O

Art. No.	Product	Description	Packing
TN 1207	**Orange Serum Agar**	for 12.5 l culture medium (40.0 g for 1 l culture medium) Isolation, cultivation and determination of the germ count of acid-tolerant spoilage organisms in fruit juices and fruit extracts.	500 g

Art. No.	Product	Description	Packing
TN 1269	**Orange Serum Broth**	for 20 l culture medium (25.0 g for 1 l culture medium) Isolation, cultivation and determination of the germ count of acid-tolerant spoilage organisms in fruit juices and fruit extracts.	500 g

P

Art. No.	Product	Description	Packing
TN 1209	**Palcam Agar (Base)** **(Palcam Agar acc. to van Netten)**	for 7.4 l culture medium (68.0 g for 1 l culture medium) Isolation and detection of *Listeria monocytogenes* from foodstuffs (acc. to § 64 German Food and Feed Code), biological samples and strongly contaminated samples from the environment. Addition of Palcam Selective Supplement TN 1312.	500 g
TN 1147	**Peptone Saline Diluent** **(Maximum Recovery Diluent)**	for 52.6 l culture medium (9.5 g for 1 l culture medium) Culture medium for preparing samples acc. to DIN EN ISO 6887-1.	500 g
TN 1189	**Plate Count Agar (TGE Agar, Tryptone Glucose Yeast Extract Agar)**	for 27.0 l culture medium (18.5 g for 1 l culture medium) Used to determine complete germ counts in milk, dairy products (acc. to § 64 German Food and Feed Code), water and other test materials.	500 g
TN 1190	**Plate Count Agar with Skimmed Milk (Tryptone Glucose Yeast Extract Milk Agar)**	for 25.6 l culture medium (19.5 g for 1 l culture medium) Determination of germ counts in milk and dairy products (acc. to § 64 German Food and Feed Code).	500 g
TN 1150	**Potato Dextrose Agar** **acc. to harm. EP/USP/JP**	for 12.8 l culture medium (39.0 g for 1 l culture medium) Preparation of *Aspergillus niger* test strain and for isolation. Used to cultivate and to maintain strains of yeasts and fungi. Medium for testing non-sterile products based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1286	**Pseudomonas Agar (Base)**	for 10.3 l culture medium (48.4 g for 1 l culture medium) Used to detect and count *Pseudomonas aeruginosa* from water samples, foodstuffs and other material. Addition of Pseudomonas CN Selective Supplement TN 1323 and glycerin TN 1424.	500 g

R

Art. No.	Product	Description	Packing
TN 1297	**R2A Agar**	for 27.6 l culture medium (18.1 g for 1 l culture medium) Used in the testing of water for use in injections.	500 g
TN 1262	**Rappaport Vassiliadis Salmonella Enrichment Broth acc. to harm. EP/USP/JP (RVS Broth)**	for 18.5 l culture medium (27.1 g for 1 l culture medium) Selective enrichment of salmonellae. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g

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Art. No.	Product	Description	Packing
TN 1167	**Reinforced Medium for Clostridia acc. to harm. EP/USP/JP (RCM)**	for 13.2 l culture medium (38.0 g for 1 l culture medium) Test for *Clostridia*. Selective enrichment of salmonellae. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1039	**Rice Extract Agar**	for 29.4 l culture medium (17.0 g for 1 l culture medium) Detection of *Candida albicans* via the formation of chlamydospores. Addition of Tween® 80 TN 1422.	500 g

S

Art. No.	Product	Description	Packing
TN 1264	**Sabouraud Dextrose Agar acc. to harm. EP/USP/JP**	for 7.7 l culture medium (65.0 g for 1 l culture medium) Test for *Candida albicans*. Culture medium for testing non-sterile products. Culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1047	**Sabouraud Dextrose Broth acc. to harm. EP/USP/JP**	for 16.7 l culture medium (30.0 g for 1 l culture medium) Test for *Candida albicans*. Culture medium for testing non-sterile products. Culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1178 TN 1252	**Sabouraud 2%Glucose Agar (Sabouraud Dextrose Agar)**	for 11.9 l culture medium (42.0 g for 1 l culture medium) for 119.0 l culture medium (42.0 g for 1 l culture medium) Used to cultivate and maintain strains of dermatophytes, yeasts and fungi.	500 g 5 kg
TN 1016	**Sabouraud 2%Glucose Chloramphenicol Agar**	for 11.9 l culture medium (42.1 g for 1 l culture medium) Used to isolate, cultivate and maintain strains of pathogenic and apathogenic dermatophytes, yeasts and moulds.	500 g
TN 1015	**Sabouraud Glucose Medium with Chloramphenicol**	for 8.1 l culture medium (62.1 g for 1 l culture medium) Selective cultivation of fungi in sterility testing.	500 g
TN 1181	**Schaedler Agar (Base)**	for 13.4 l culture medium (37.2 g for 1 l culture medium) Cultivation and application of the antimicrobial sensitivity test to anaerobes.	500 g
TN 1203	**Schaedler Broth**	for 19.1 l culture medium (26.2 g for 1 l culture medium) Cultivation and application of the antimicrobial sensitivity test to anaerobes.	500 g
TN 1225	**Selenite Broth**	for 21.7 l culture medium (23.0 g for 1 l culture medium) Selective enrichment of salmonellae from faeces, foodstuffs and other materials. No supplements necessary.	500 g
TN 1183	**Selenite Cystine Broth**	for 21.7 l culture medium (23.0 g for 1 l culture medium) Selective enrichment of salmonellae from faeces, foodstuffs and other test materials. No supplements necessary.	500 g
TN 1184	**Simmons Citrate Agar**	for 9.8 l culture medium (15.3 g for 1 l culture medium) Differentiation of *Enterobacteriaceae* on the basis of the utilisation of citrate as the sole source of carbon (acc. to DIN 38411, § 64 German Food and Feed Code).	150 g

Art. No.	Product	Description	Packing
TN 1220	**Sorbitol MacConkey Agar (SMAC Agar)**	for 10.3 l culture medium (48.5 g for 1 l culture medium) Detection of *E. coli* serogroup O 157.	500 g
TN 1221 TN 12215	**SS Agar (Salmonella Shigella Agar Modified)**	for 8.8 l culture medium (56.5 g for 1 l culture medium) for 88.5 l culture medium (56.5 g for 1 l culture medium) Isolation of salmonellae and shigellae. Inhibits the growth of gram-positive microorganisms, suppresses swarming of *Proteus* sp.	500 g 5 kg
TN 1017	**Synthetic Nutrient Deficient Agar (SNA)**	for 29.1 l culture medium (17.2 g for 1 l culture medium) Cultivation of yeasts and moulds in particular in plant culture.	500 g

T

Art. No.	Product	Description	Packing
TN 1259	**TBX Chromogen Agar (Tryptone Bile X Glucuronic Agar)**	for 15.8 l culture medium (31.6 g for 1 l culture medium) Detection and determination of the colony count of *E. coli* from food. No supplements necessary.	500 g
TN 1187	**Tetrathionate Broth (Base) acc. to Muller-Kauffmann**	for 5.0 l culture medium (99.9 g for 1 l culture medium) Selective enrichment of salmonellae from meat, meat products and other foodstuffs. Addition of iodine-potassium iodide solution (5 g potassium iodide, 4 g iodine, 20 ml distilled water).	500 g
TN 1188 TN 1253	**Thioglycolate Medium acc. to EP/USP (Fluid Thioglycolate Medium)**	for 16.7 l culture medium (30.0 g for 1 l culture medium) for 166.7 l culture medium (30.0 g for 1 l culture medium) Detection of aerobe and anaerobe microorganisms and when testing the sterility of products (EP and USP).	500 g 5 kg
TN 1256	**Thioglycolate Medium Modified (high degree of transparency)**	for 16.7 l culture medium (30.0 g for 1 l culture medium) Detection of aerobe and anaerobe microorganisms and when testing the sterility of products.	500 g
TN 1023	**Thioglycolate Medium without Indicator**	for 16.6 l culture medium (30.1 g for 1 l culture medium) Detection of a variety of microorganisms, in particular anaerobes, from clinical material.	500 g
TN 1083 TN 1081	**Tryptic Soy (CASO) Broth Irradiated (Soyabean Casein Digest Broth Irradiated)**	for 16.7 l culture medium (30.0 g for 1 l culture medium) for 166.7 l culture medium (30.0 g for 1 l culture medium) Sterility control of filling equipment (media-fill).	500 g 5 kg
TN 1260	**Tryptone Bile Agar (TBA)**	for 15.9 l culture medium (31.5 g for 1 l culture medium) Used to detect and count *E. coli* using the membrane filtration method in water and the membrane-agar method in food (acc. to § 64 German Food and Feed Code).	500 g

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Art. No.	Product	Description	Packing
TN 1036	**Tryptone Soy Yeast Extract Agar (TSYEA)**	for 10.4 l culture medium (48.0 g for 1 l culture medium) Confirmation of *Listeria* spp. from milk and other dairy products and other foodstuffs.	500 g
TN 1258	**Tryptophan Pepton Water (Tryptophan Broth)**	for 6.3 l culture medium (16.0 g for 1 l culture medium) Differentiation of *Enterobacteriaceae* by detection of indole formation (DIN EN 9308-1).	100 g
TN 1241	**TSC Agar (Base) (Tryptose Sulfit Cycloserine Agar)**	for 12.8 l culture medium (39.0 g for 1 l culture medium) Detection of *Clostridium perfringens* and other sulfitereducing *Clostridia* taken from foodstuffs and water. Addition of TSC Selective Supplement TN 1333.	500 g

U

Art. No.	Product	Description	Packing
TN 1143	**Urea Agar (Base) acc. to Christensen**	for 14.7 l culture medium (17.0 g for 1 l culture medium) Used for the urease-test for the presence of urease-positive bacteria, e.g. *Proteus* sp. and *Klebsiella* sp. (acc. to § 64 German Food and Feed Code).	250 g

V

Art. No.	Product	Description	Packing
TN 1148	**Violet Red Bile Glucose Agar (VRBD Agar)**	for 13.3 l culture medium (37.5 g for 1 l culture medium) Isolation and determination of the germ count of *Enterobacteriaceae* in foodstuffs.	500 g
TN 1042	**Violet Red Bile Glucose Agar acc. to harm. EP/USP/JP (VRBD Agar)**	for 13.7 l culture medium (36.5 g for 1 l culture medium) Test for bile-tolerant gram-negative bacteria. Culture medium for testing non-sterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1149	**Violet Red Bile Lactose Agar (VRBL Agar, VRB Agar)**	for 13.3 l culture medium (37.5 g for 1 l culture medium) Detection and determination of the colony count of coliform bacteria from water, foodstuffs and dairy products.	500 g

W

Art. No.	Product	Description	Packing
TN 1194 TN 1195	**Water-blue Metachrome-yellow Lactose Agar acc. to Gassner, Modified (Gassner Agar, mod.)**	for 9.9 l culture medium (50.3 g for 1 l culture medium) for 99.4 l culture medium (50.3 g for 1 l culture medium) Detection and isolation of *Enterobacteriaceae* from foodstuffs (especially meat) and other test materials.	500 g 5 kg
TN 1210	**Wort Agar (Base)**	for 10.4 l culture medium (48.0 g for 1 l culture medium) Detection, isolation and determination of the colony count of yeasts and fungi (especially in controls carried out during the production of beverages). Addition of glycerin TN 1424.	500 g
TN 1211	**Wort Broth (Base)**	for 15.2 l culture medium (33.0 g for 1 l culture medium) Detection, isolation and determination of the colony count of yeasts and fungi. Addition of glycerin TN 1424.	500 g

X

Art. No.	Product	Description	Packing
TN 1170	**XLD Agar acc. to harm. EP/USP/JP (Xylose Lysine Deoxycholate Agar**	for 9.1 l culture medium (55.2 g for 1 l culture medium) Test for *Salmonella*. Medium for testing non-sterile products. Medium is based on the recommendation of the harmonised method acc. to EP/USP/JP (2006).	500 g
TN 1196	**XLD Agar acc. to ISO 6579 (Xylose Lysine Desoxycholate Agar)**	for 8.8 l culture medium (57.0 g for 1 l culture medium) Isolation of salmonellae and shigellae from foodstuffs, clinical materials and pharmaceuticals.	500 g

Y

Art. No.	Product	Description	Packing
TN 1290	**Yeast Extract Agar**	for 26.3 l culture medium (19.0 g for 1 l culture medium) Used to determine the colony count of microorganisms cultivable at 22 °C and 35 °C from water and waste water (DIN EN ISO 6222).	500 g
TN 1144	**Yeast Extract Glucose Chloramphenicol Agar (YGC Agar)**	for 14.2 l culture medium (35.1 g for 1 l culture medium) Detection and determination of the colony count of yeasts and moulds from foodstuffs. No supplements necessary.	500 g
TN 1229	**Yersinia Agar (Base) acc. to Schiemann (CIN)**	for 8.9 l culture medium (56.0 g for 1 l culture medium) Isolation of *Yersinia enterocolitica* from foodstuffs and clinical test materials. Addition of Yersinia Selective Supplement TN 1301.	500 g

Supplements

Supplements

Art. No.	Product	Description	Packing
TN 1315	**Bacillus Cereus Selective Supplement (Polymyxin B Selective Supplement)**	for 6 l culture medium (2 vials for 1 culture medium) Inhibition of accompanying flora during the selection of *Bacillus cereus*. In conjunction with Bacillus Cereus Agar (Base) TN 1245 and Egg Yolk Emulsion TN 1316.	12 x 1 vial
TN 1304	**Campylobacter Growth Supplement**	for 22.2 l culture medium (4.5 g for 1 l culture medium) Used to promote growth during the cultivation of *Campylobacter* spp. In conjunction with Nutrient Agar I TN 1164, TN 1165 and potato starch.	100 g
TN 1302	**Campylobacter Selective Supplement**	for 6 l culture medium (2 vials for 1 l culture medium) Suppression of accompanying faecal flora during the cultivation of *Campylobacter* spp., in particular *Campylobacter fetus*. In conjunction with Campylobacter Growth Supplement TN 1304, Nutrient Agar I TN 1164, TN 1165 and potato starch.	12 x 1 vial
TN 1316	**Egg Yolk Emulsion**	for approx. 2 l culture medium (2 vials for 1 l culture medium) Isolation and differentiation of *Bacillus* spp., in particular of *Bacillus cereus* from foodstuffs (acc. to § 64 German Food and Feed Code). Supplement for culture media: 1 vial contains 25 ml 2 vials for 950 ml Bacillus C. Agar (Base) TN 1245. 4 vials for 900 ml MYP Agar (Base) TN 1291.	4 x 25 ml
TN 1310	**Egg Yolk Potassium Tellurite Emulsion**	for approx. 2 l culture medium (2 vials for 1 l culture medium) Isolation and differentiation of *Staphylococcus aureus* from foodstuffs and pharmaceutical products. Supplement for culture media: 1 vial contains 25 ml 2 vials for 950 ml Baird Parker Agar (Base) TN 1104.	4 x 25 ml
TN 1318	**Fraser Selective Supplement**	for 3 l culture medium (1 vial per component for 0.5 l medium) Inhibition of accompanying flora during the selective enrichment of *Listeria monocytogenes*. Supplement for culture media consists of two components. 1 vial per component for 0.5 l Fraser Broth (Base) TN 1257.	6 x 2 vials
TN 1319	**½ Fraser Selective Supplement**	for 13.5 l culture medium (1 vial per component for 2.25 l medium) Inhibition of accompanying flora during the selective enrichment of *Listeria monocytogenes*. Supplement for culture media consists of two components. 1 vial per component for 2.25 l Fraser Broth (Base) TN 1257.	6 x 2 vials
TN 1330	**m-CP Selective Supplement**	for 2 l culture medium (1 vial per component for 0.5 l culture medium) Used to detect *Clostridium perfringens* (incl. spores) in water. Supplement for culture media consists of three components. 1 vial per component for 0.5 l m-CP Agar (Base) TN 1288.	4 x 3 vials

Art. No.	Product	Description	Packing
TN 1334	**Minca Supplement**	for 1.2 l culture medium (1 vial for 0.1 l culture medium) Encourage development of fimbrial antigen F 5 (K 99) in entero-pathogenic *E. coli*. Relevant to veterinary medicine (young cattles). 1 vial for 100 ml Minca Agar, modified TN 1040.	12 x 1 vials
TN 1324	**Novobiocin Selective Supplement**	for 6 l culture medium (2 vials for 1 l culture medium) Detection of motile salmonellae from foodstuffs and other test materials. 1 vial for 0.5 l MSRV Medium (Base) TN 1272.	12 x 1 vial
TN 1312	**Palcam Selective Supplement**	for 6 l culture medium (2 vials for 1 l culture medium) Inhibition of accompanying flora during the selection of *Listeria monocytogenes*. 1 vial for 0.5 l Palcam Agar (Base) TN 1209.	12 x 1 vial
TN 1323	**Pseudomonas CN Selective Supplement**	for 6 l culture medium (2 vials for 1 l culture medium) Inhibition of accompanying flora during the isolation of *Pseudomonas aeruginosa*. 1 vial for 0.5 l Pseudomonas Agar (Base) TN 1286.	12 x 1 vial
TN 1333	**TSC Selective Supplement**	for 6 l culture medium (2 vials for 1 l culture medium) Inhibition of accompanying flora during the isolation of *Clostridium perfringens*. 1 vial for 0.5 l TSC Agar (Base) TN 1241.	12 x 1 vial
TN 1301	**Yersinia Selective Supplement**	for 6 l culture medium (2 vials for 1 l culture medium) Inhibition of accompanying flora during the isolation of *Yersinia enterocolitica*. 1 vial for 0.5 l Yersinia Agar (Base) acc. to Schiemann (CIN) TN 1229.	12 x 1 vial

Additives
Detection Reagents

Additives

Art. No.	Product	Description	Packing
TN 1424	**Glycerin, water-free**	Carbon source and energy source, inhibits the growth of bacterial accompanying flora. Supplement for culture media: Cetrimide Agar acc. to harm. EP/USP/JP TN 1024 Bile Chrysoidine Glycerol Medium (Base) with MUG TN 1237 Bile Chrysoidine Glycerol Agar (Base) TN 1133, TN 1249 Buffered Nitrate Motility Medium TN 1078 King's Agar (Base) acc. to EN 12780 TN 1287 Pseudomonas Agar (Base) TN 1286 Wort Agar (Base) TN 1210 Wort Broth (Base) TN 1211	100 ml
TN 1422	**Tween® 80**	Emulsifier for lipids and oils. Solubilizers for substances that are difficult to wet. Growth factor. Supplement for culture media: 1 ml for 1 l CATC Agar (Base) TN 1273. 1 ml for 1 l MRS Agar (Base) TN 1201. 1 ml for 1 l MRS Agar (Base) with pH 5.7 TN 1068. 1 ml for 1 l MRS Broth (Base) TN 1205. 10 ml for 1 l Rice Extract Agar TN 1039.	100 ml
TN 1308	**Urea Solution, 40%**	Urea test for sterile culture media. Supplement for culture medium: 1 vial for 100 ml Urea Agar (Base) acc. to Christensen TN 1143. 1 vial for 100 ml HIB Medium (Base) TN 1145. 1 vial for 1 l Kligler Iron Agar TN 1146.	12 x 1 vial

Detection reagents

Art. No.	Product	Description	Packing
TN 1512	**Acetamide Solution**	for 20 tests	20 x 1 btl
TN 1513		for 100 tests	100 x 1 btl
		Used to detect ammonia in the identification of *Pseudomonas aeruginosa*. Ready-to-use Acetamide Solution acc. to DIN EN ISO 16266. 1 bottle contains 5 ml Acetamide Solution. Addition of Nesslers Reagent TN 1515, TN 1516.	
TN 1519	**Acid Phosphatase Reagent**	Reagent is used in accordance with ISO 14189 to detect acid phosphatase from *Clostridium perfringens*. 6 vials dye reagent, 1 bottle buffer	6 vials + 1 btl
TN 1515	**Nesslers Reagent**	for 60 vials Acetamide Solution	1 x 5 ml
TN 1516		for 480 vials Acetamide Solution	4 x 10 ml
		Used to detect ammonia in the identification of *Pseudomonas aeruginosa*. In conjunction with Acetamide Solution TN 1512, TN 1513.	
TN 1517	**Oxidase Reagent**	for 12 tests	12 x 1 vial
		Used for the oxidase reaction. 1 vial in 2 ml distilled water.	

Ready-to-use Culture Media

Ready-to-use culture media

Art. No.	Product	Description	Packing
TN 1707 TN 1708	**MegaPec Broth**	Selective enrichment of gram-negative beer spoiling bacteria belonging to the genera *Pectinatus* and *Megasphaera*. 1 tube contains 12 ml broth.	20 tubes 100 tubes
TN 1712	**Sabouraud Glucose Slant Agar**	Used to isolate, cultivate and maintain strains of pathogenic and apathogenic dermatophytes, yeasts and moulds. 1 tube contains 5 ml culture medium.	20 tubes
TN 1714	**Sabouraud Glucose Slant Agar with Chloramphenicol and Cycloheximide**	Isolation of dermatophytes. 1 tube contains 5 ml culture medium.	20 tubes
TN 1702	**Swarm Agar**	Enables salmonellae to swarm well, which promotes improved formation of the H-antigens. 1 tube contains 10 ml culture medium.	20 tubes

Ready-to-use culture media for breweries

Package unit 9 x 250 ml

Several culture media each with 250 ml are available for your individual composition. **Your pack of 9 contains 9 x 250 ml, according to your wishes.** Please contact us. We will be happy to advise you in your culture media selection.

Art. No.	Product	Description	Packing
TN 1724	**DEV Nutrient Agar**	Determination of complete germ counts in water acc. to DIN 38411 and § 64 LFGB (German Food and Feed Code).	250 ml
TN 1743	**Lysine Agar**	Isolation and determination of the germ count of non-Saccharomyces (wild) yeasts in breweries.	250 ml
TN 1502	**VLB-S7-S Agar**	Detection of gram-positive, beer spoiling microorganisms (lactobacilli and pediococci in beer).	250 ml
TN 1503	**VLB-S7-S Broth**	Detection of gram-positive, beer spoiling microorganisms (lactobacilli and pediococci in beer).	250 ml
TN 1744	**WL Nutrient Agar (WLN)**	Used for the non-selective determination of microbial flora in breweries.	250 ml
TN 1745	**WL Nutrient Agar with Cycloheximide (WLD)**	Detection and determination of the colony count of bacteria from test material that contain large numbers of yeasts and fungi.	250 ml
TN 1746	**Wort Agar**	Cultivation of yeasts and moulds.	250 ml

Base Materials

Base materials

Art. No.	Product	Description	Packing
TN 1400	**Agar for microbiological purpose**	Basal medium for the preparation of culture media for microbiological use.	500 g
TN 1403 TN 1407	**Casein peptone, pancreatic digested (Tryptone)**	Growth of a wide variety of organisms. Nutritious peptone and amino-acids. Component of many culture media.	500 g 5 kg
TN 1423	**Glucose for microbiological use**	Dextrose for microbiological use.	500 g
TN 1418	**Lactose for microbiology**	Milk sugar for microbiological use.	500 g
TN 1410	**Meat extract**	Culture medium additive.	500 g
TN 1405	**Meat peptone, pancreatic digested**	A highly nutritious peptone.	500 g
TN 1417	**Sodium chloride for microbiological purpose**	Table salt for microbiological use.	1 kg
TN 1419	**Soy bean Peptone, papainic digested**	A broad nutrient spectrum, a high level of carbohydrates and vitamins.	500 g
TN 1404	**Yeast extract for microbiological use**	A source of carbon and amino acid and a rich source of B vitamins and growth factors.	500 g

Do you have a specific request?
We develop and produce according to your demand.

Immunoassays

DIAGNOSTICS WITH PASSION

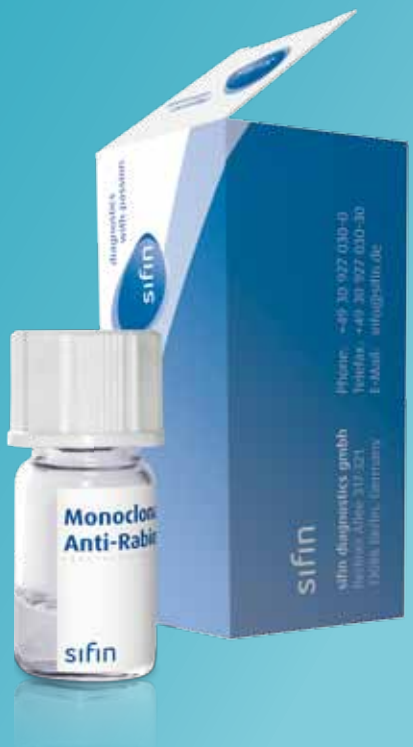
Detection of rabies virus

Our Monoclonal Anti-Rabies, FITC, is used for detection of rabies virus in impression smears from different sources. The direct immunofluorescence test can be used for the detection of rabies virus in brain tissues of animals and by virus isolation in cell cultures.

The product contains fluorescein isothiocyanate (FITC)-labelled monoclonal antibodies.

Our portfolio comprises:

- Monoclonal Anti-Rabies, FITC



Immunoassays

Detection of rabies virus

Monoclonal Anti-Rabies, FITC is used for the detection of rabies virus in impression smears from brain of animals and by virus isolation in cell cultures. The test is based on the principle of direct immunofluorescence. The test samples are coated with Monoclonal Anti-Rabies, FITC in the recommended working dilution, washed and placed in a fluorescence microscope to test for fluorescence. This fluorescent antibody test (FAT) is the most widely used method for diagnosing rabies infection and recommended by both WHO and OIE.
Monoclonal Anti-Rabies, FITC contains fluorescein isothiocyanate (FITC)-conjugated monoclonal antibodies, which are isolated from cell culture supernatants and conjugated with FITC.

The product is approved by the Licensing Authority of FLI, Federal Research Institute for Animal Health.
License No.: FLI B-555
Every manufactured product batch is released by the OIE and National Reference Laboratory of FLI.

Art. No.	Product	Description	Packing
PA 1202	**Monoclonal Anti-Rabies, FITC**	Sensitive detection of the classical rabies virus or bat associated lyssaviruses, especially EBLV-1 and EBLV-2 using the fluorescent antibody test (FAT).	1 ml

Monoclonal Antibodies

DIAGNOSTICS WITH PASSION

The perfect combination of technology and antibody

Use your own technology combined with our antibodies. We offer monoclonal antibodies for research or further use in your own technique.

Depending on your demand, we supply supernatant or purified antibodies. In case you need a special labeling for your application, just contact us.

Our portfolio comprises:

- STEC-(VTEC) diagnostics
- Capture antibody for human IgM EIA
- Specific antibodies against *Salmonella*
- Anti-Mistletoe lectins for determining mistletoe lectin

Monoclonal Antibodies

Anti-Human IgM

Art. No.	Product	Description	Packing
PA 1312	**Anti-Human IgM**	capture antibody Sufficient for coating 10 micro-titre plates Coating antibody used for human IgM antibody detection by capture enzyme immunoassays.	1 mg

Anti-Mistletoe lectins (A chain)

Art. No.	Product	Description	Packing
PL110008	**Anti-Mistletoe lectin (A chain) 5F5**	5F5 binds preferentially to native epitopes of mistletoe lectins I-III. Serves as capture antibody in ELISA in combination with detection antibody „anti-mistletoe lectin (A chain) 5H8, POD labelled" for determining total lectin content in mistletoe extracts.	0.1 mg
PL110005	**Anti-Mistletoe lectin (A chain) 5H8, POD labelled**	5H8 binds preferentially to native epitopes of mistletoe lectins I-III. Serves as detection antibody in ELISA in combination with capture antibody „anti-mistletoe lectin (A chain) 5F5" for determining total lectin content in mistletoe extracts.	0.1 ml

Anti-Shigatoxin (Verotoxin)

Art. No.	Product	Description	Packing
TS 2106	**Anti-Shigatoxin 1**	clone: VT 109/4-E9b Reacts with subunit B of Shigatoxin 1	1 mg
TS 2103	**Anti-Shigatoxin 2**	clone: VT 135/6-B9 Reacts with subunit A of Shigatoxin 2	1 mg
TS 2107	**Anti-Shigatoxin 2**	clone: VT 136/8-H4 Reacts with subunit B of Shigatoxin 2	1 mg

Anti-Salmonella

	Product	Packing
	Salmonella specific antibodies	on request

Contract Manufacturing

DIAGNOSTICS WITH PASSION

We meet your requirements

Benefit from our experience in core areas:

- Use our blood grouping monoclonal antibodies, which we supply as concentrates for further manufacturing use.
- We share our know-how in the development and production of culture media with you and produce according to your formulation.
- Our bacteriological test reagents for serotyping may be supplied as bulk reagents.

Take advantage of our longstanding expertise in the contract manufacturing of monoclonal antibodies:

Since 1992 we have produced monoclonal antibodies for in vitro diagnostics and for research purposes. The contract manufacturing of blood-group-serological monoclonal antibodies in bulk began in 2004, in accordance with the applicable GMP regulations of the FDA.

We have a wide repertoire of processes for the cultivation, purification and labeling of monoclonal immunoglobulins of different species (mice, rats, humans, rabbits).
From cell line entry to the finished bulk product with all necessary process stages, we are prepared to assist you with individual offers that are tailored to your specific requirements.
We look forward to every new challenge.

Contract Manufacturing

Do you have a specific request?
Simply let us know your demand.

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MICRONAUT

DIAGNOSTICS WITH PASSION

Use the reference method for your routine diagnostics or fill the gap of your fully automated system

MICRONAUT systems for the identification and susceptibility testing of bacteria and yeast

The testing principle of MICRONAUT identification systems (ID) is based on the phenotypical detection of the biochemical characteristics of microorganisms. The anti-microbial susceptibility test (AST) is based on phenotypical resistance detection by the growth of the microorganisms in the presence of the antibiotics / antifungal agents tested.

The microdilution method used here is a standardised one regarded worldwide as the recognised reference system for determining the minimum inhibitory concentration (MIC).

The substrates or antibiotics are present vacuum-dried in the microtitration plates. Thanks to a special vacuum drying procedure, these MICRONAUT plates can be stored at room temperature (15-25 °C).

Starting with a pure culture, the microorganisms are suspended in the corresponding MCN media and transferred to the MICRONAUT plates with an 8-channel pipette. Rehydration of the dried substances occurs by addition of the characterising bacteria or yeast suspension. After an incubation period of 18-24 hours the results can be photometrically measured or read visually.

As the central element in testing the MICRONAUT software combines device management, device communication and data analysis as well communication with the LIMS. The integrated expert system analyses the photometric test measurements and assumes the clinical validation. As an option, the software can be connected bi-directionally with the laboratory EDP.

MERLIN

MICRONAUT

MICRONAUT identification

The test principle of the MICRONAUT identification systems is based on phenotypic detection of the biochemical properties of microorganisms.

Art. No.	Product	Description	Incubation time	Evaluation	Packing
M/E2-880-400	**MICRONAUT-GNE**	4 tests/plate Identification of *Enterobacteriaceae* and other gram-negative bacteria.	18 - 24 hrs	photometrically	100 plates
M/E2-710-400	**MICRONAUT-IDS**	4 tests/plate Identification of the most common clinically relevant *Enterobacteriaceae*, Non-fermenter, staphylococci, enterococci and streptococci.	5 - 6 hrs	photometrically	100 plates + 2 l NaCl
M/E2-740-160	**MICRONAUT-Candida**	4 tests/plate Identification of clinically relevant yeasts.	24 hrs	photometrically	40 plates
M/E5-005-200	**MICRONAUT-UR**	2 tests/plate Identification and susceptibility testing for urological diagnostics.	18 - 24 hrs	visually or photometrically	100 plates
M/E5-006-100	**MICRONAUT-UR-KH**	1 test/plate Identification and susceptibility testing for urine diagnostics, inclusive MRSA and ESBL detection.	18 - 24 hrs	photometrically	100 plates

MICRONAUT antimicrobial susceptibility tests (AST)

The MICRONAUT AST plates are offered in individual customer defined configurations, if an agreed minimum order quantity is being purchased. The customer may choose his preferred standard like EUCAST, or CLSI and compose his own customised antibiogram from more than 200 antibiotics. All AST products listed below are available as standard products. We continuously revise the range of standard AST plates. So please contact us for details on the actual program.

Customer defined plates

Art. No.	Product	Description	Incubation time	Evaluation	Packing
M/E1-xxx-x00	**MICRONAUT-S individual**	1 test/2 tests/4 tests/plate AST as Breakpoint or MIC method with your choice of antibiotics (minimum order quantity has to be agreed).	18 - 24 hrs	visually or photometrically	100 plates
M/EB-xxx-x00	**MICRONAUT-SB individual**	1 test/2 tests/4 tests/plate AST as Breakpoint or MIC method with your choice of antibiotics (minimum order quantity has to be agreed).	18 - 24 hrs	visually or photometrically	100 plates

Standard plates for clinical laboratories

Art. No.	Product	Description	Incubation time	Evaluation	Packing
M/EB-422-400	**MICRONAUT-SB Standard Urine II (EUCAST)**	4 tests/plate AST as Breakpoint method for UTI relevant antibiotics, EUCAST standard.	18 - 24 hrs	visually or photometrically	100 plates
M/EB-423-200	**MICRONAUT-SB Varia (ambulant) (EUCAST)**	2 tests/plate AST as Breakpoint method for mainly ambulant relevant antibiotics, EUCAST standard.	18 - 24 hrs	visually or photometrically	100 plates

MICRONAUT

Standard plates for veterinary laboratories

Art. No.	Product	Description	Incubation time	Evaluation	Packing
M/E1-032-200	**MICRONAUT-S Mastitis**	2 tests/plate AST as MIC method for mastitis relevant antibiotics.	18 - 24 hrs	visually or photometrically	100 plates
M/E1-150-100	**MICRONAUT-S Großtiere**	1 test/plate AST as MIC method for antibiotics for therapy of large animals.	18 - 24 hrs	visually or photometrically	100 plates
M/E1-130-100	**MICRONAUT-S Kleintier**	1 test/plate AST as MIC method for antibiotics for therapy of small animals.	18 - 24 hrs	visually or photometrically	100 plates

Standard plates for antifungal susceptibility testing of yeasts

Art. No.	Product	Description	Incubation time	Evaluation	Packing
M/E1-824-160	**MICRONAUT-AM**	4 tests/plate AST as Breakpoint + MIC method for antifungal agents.	22 - 48 hrs	visually or photometrically	40 plates
M/E1-831-040	**MICRONAUT-AM Anti Fungal Agents MIC**	1 test/plate AST as MIC method for antifungal agents (EUCAST).	22 - 48 hrs	visually or photometrically	40 plates
M/E1-832-080	**MICRONAUT-AM EUCAST AFST**	2 tests/plate AST as MIC method for antifungal agents (EUCAST).	22 - 48 hrs	visually or photometrically	40 plates

MICRONAUT MIC Strips

Art. No.	Product	Description	Evaluation	Packing
M/EM-006-040	**MICRONAUT MIC Strip Colistin**	40 tests Susceptibility testing of bacteria by the broth microdilution method to determine the minimum inhibitory concentration (MIC). According to the EUCAST and CLSI recommendations of March 2016 and the study of November 2016.	visually	5 x 8 strips/ tests with 12 wells per strip
M/EM-024-040	**MICRONAUT MIC-Strip Piperacillin/Tazobactam**	40 tests Susceptibility testing of bacteria by the broth microdilution method to determine the MIC.	visually	5 x 8 strips/ tests with 12 wells per strip
M/EM-022-040	**MICRONAUT MIC Strip Vancomycin/ Teicoplanin**	40 tests Broth microdilution method for detection of glycopeptide resistant bacteria by determination of the MIC of Teicoplanin and Vancomycin.	visually	5 x 8 strips/ tests with 12 wells per strip

NEW

Special plates for clinical laboratories

Art. No.	Product	Description	Incubation time	Evaluation	Packing
M/E1-111-040	**MICRONAUT-S ß-Lactamases**	1 test/plate Phenotypic detection of ESBL (extended spectrum beta-lactamase), MBL (metallo-beta-lactamase), KPC (Klebsiella pneumoniae carbapenemase), AMP-C (amino-penicillin-deactivating cephalosporinase) and D-carbapenemases (OXA-48) for all relevant gram-negative bacteria in a single system.	18 - 24 hrs	visually or photometrically	40 plates
M/E1-055-040	**MICRONAUT-S MRSA / GP**	1 test/plate Detection of multidrug-resistant staphlococci (MRSA), enterococci (VRE) and pneumococci, including testing of novel antibiotics (e.g. daptomycin, ceftaroline).	18 - 24 hrs	visually or photometrically	40 plates
M/E1-114-040	**MICRONAUT-S MDR MRGN-Screening**	1 test/plate Susceptibility testing of multidrug-resistant gram-negative bacteria. Phenotypic detection of AMP-C cephalosporinase and type A-, B- and D-carbapenemases (new: ceftolozane/ tazobactam and ceftazidime/ avibactam).	18 - 24 hrs	visually or photometrically	40 plates
M/E1-085-040	**MICRONAUT-S Anaerobes MIC**	1 test/plate Susceptibility testing of treatment-relevant antimicrobial agents, such as tigecycline, moxifloxacin or ertapenem.	18 - 24 hrs	visually or photometrically	40 plates
M/E1-120-080	**MICRONAUT-S Carbapenemases Detection**	2 tests/plate Phenotypic detection of clinically relevant carbapenemases OXA-48-like (type D), MBL (metallo-beta-lactamase) and KPC (type A Klebsiella pneumoniae carbapenemase).	18 - 24 hrs	visually or photometrically	40 plates
M/E1-973-040	**MICRONAUT-S Campylobacter**	1 test/plate Determine resistances by measuring MIC for all relevant antimicrobial agents against *Campylobacter*.	18 - 24 hrs	visually or photometrically	40 plates
M/E1-166-040	**MICRONAUT-S Pneumococci & Haemophilus MIC**	1 test/plate Determine resistances by measuring MIC for all relevant antimicrobial agents against pneumococci and *Haemophilus*.	18 - 24 hrs	visually or photometrically	100 plates
M/E1-099-100	**MICRONAUT-S Pseudomonas MIC**	1 test/plate Determine resistances by measuring MIC for pseudomonas-active antimicrobial agents. (new: ceftolozane/ tazobactam and ceftazidime/ avibactam).	18 - 24 hrs	visually or photometrically	100 plates
M/E1-981-040	**MICRONAUT-S CF**	1 test/plate Testing of multiple drug resistant non-fermenters from patients with cystic fibrosis.	18 - 24 hrs	visually or photometrically	40 plates

MICRONAUT

Special plates for interlaboratory comparison

Art. No.	Product	Description	Incubation time	Evaluation	Packing
M/EB-379-005	**MICRONAUT-SB Ringversuch Urologie**	1 test/plate AST towards MIC for external laboratory control for urologists.	18 - 24 hrs	visually or photometrically	5 plates
M/E1-146-005	**MICRONAUT-S MHK Ringversuch**	1 test/plate AST towards MIC for external laboratory control.	18 - 24 hrs	visually or photometrically	5 plates

MICRONAUT reagents

Some identification tests require adding of reagent before measuring.

Art. No.	Product	Associated MCN plate	Tests	Packing
M/E2-301-001	**Indol Reagent**	MICRONAUT-IDS/UR/GNE	400	100 ml
M/E2-303-001	**Nitrate Reagent A**	Optional for MICRONAUT ID plates: MICRONAUT-IDS/UR/GNE		100 ml
M/E2-304-001	**Nitrate Reagent B**	Optional for MICRONAUT ID plates: MICRONAUT-IDS/UR/GNE		100 ml
M/E2-305-001	**Paraffin Oil**	MICRONAUT-IDS/GNE/UR	Depending on the product	100 ml
M/E2-310-001	**Peptidase Reagent**	MICRONAUT-IDS/UR	Depending on the product	100 ml
M/E2-312-001	**NaCl**	MICRONAUT identifications	Depending on the product	1 x 1000 ml
M/E2-323-001	**AST Reagent Kit**	MICRONAUT-AM		2 (2 x 4) ml

MICRONAUT media

Bacterial suspension is prepared in MCN media.

Art. No.	Product	Associated MCN plate	Tests	Packing
M/E2-314-100	**MICRONAUT-Candida Susmed**	MICRONAUT-Candida	100	100 x 6 ml
M/E2-331-020	**Mueller Hinton Broth, cation adjusted**	MICRONAUT-S	20	20 x 11 ml
M/E2-331-100	**Mueller Hinton Broth, cation adjusted**	MICRONAUT-S	100	100 x 11 ml
M/E2-311-100	**MICRONAUT-H Medium**	MICRONAUT-S, fastidious microorganisms	100	100 x 11 ml
M/E2-330-020	**MICRONAUT-Wilkins-Chalgren Broth**	MICRONAUT-S Anaerob	20	20 x 11 ml
M/E2-324-020	**MICRONAUT-RPMI-1640 Medium + MOPS + Glucose**	MICRONAUT-AM	20	20 x 11 ml
M/E2-319-100	**MICRONAUT-SB Medium**	MICRONAUT-SB	100	100 x 11 ml
M/E2-338-100	**MICRONAUT-ID Medium**	MICRONAUT-UR	100	100 x 5.5 ml
M/E2-337-100	**MICRONAUT-AST Medium**	MICRONAUT-UR	100	100 x 5.5 ml
M/E2-318-200	**MICRONAUT-SB Medium dehydrated**	MICRONAUT-SB	Depending on the product used	200 g

NEW

MICRONAUT

MICRONAUT software

MICRONAUT software offers after automized reading, calculation, and interpretation of identification and susceptibility testing by using MICRONAUT systems.

Art. No.	Product	Description	Packing
M/U8-305-001	**MICRONAUT Software**	Basic module	1 unit
	QS Module	Record of quality control data.	1 unit
	Statistic Module	Statistical record of resistance data.	1 unit

Instruments

Art. No.	Product	Description	Packing
M/735391	**Pipette**	Electronic 8-channel stepper for fast inoculation of 12 x 100 µl.	1 unit
M/LT51119000	**Reader**	Reader for fast measurement of MCN plates.	1 unit
M/sifin3	**Reader Tecan Sunrise**	Reader for fast measurement of MCN plates (AST) with 3 filters.	1 unit
M/L4Y-100-001	**Densitometer**	Tube densitometer for adjustment of bacterial suspensions.	1 unit
M/2350	**McFarland Standard Set** 0.5 / 1.0 / 2.0	McFarland standards are used as a reference to adjust the density of bacterial suspensions.	3 tubes
M/709400	**BRAND Liquid Handling Station**	Liquid Handling Station (BRAND Pipetting robot) incl. software, 1 x USB interface area: 530 x 595 x 485 mm, 25 kg	1 unit
M/709426	**8-Channel Liquid End**	Pipette module for BRAND Liquid Handling Station, DE-M marking, Volume: 40-1000 µl	1 unit
M/709445	**Special adapter**	Adapter for BRAND Liquid Handling Station, for MICRONAUT reagent reservoirs, aluminium	1 unit
M/709434	**Tip adapter**	Adapter for BRAND Liquid Handling Station, for BRAND Robotic tips, aluminium	1 unit
M/709430	**Height adapter** 60 mm	Adapter for BRAND Liquid Handling Station, aluminium	1 unit
M/709432	**Height adapter** 30 mm	Adapter for BRAND Liquid Handling Station, aluminium	1 unit

Consumables

Art. No.	Product	Description	Packing
M/ST3-001-500	**Matrix pipette tips**	For use with the Matrix pipette.	500 units
M/LH-B791204	**Biohit Optifit Tips Flexi-Bulk 1200**	For use with the Biohit pipette.	480 units
M/BH3-487-096	**Biohit tips rack 96**	For use with the Biohit pipette.	1 rack per 96 tips
M/732152	**BRAND Robotic tips**	Tips for BRAND Liquid Handling Station DE-M marking, IVD, nonsterile, PP, colourless, palletised, DNA-free, RNase-free, Endotoxin-free Volume: 40 -1000 µl Packing: 10 TipRacks	10 x 96 units
M/709458	**Waste Box**	Waste box for BRAND Liquid Handling Station holding up BRAND Robotic tips	5 units
M/R4-510-050	**1-Channel reservoirs** autoclavable	For easy plate inoculation with 1 test/plate.	50 units
M/R4-510-350	**1-Channel reservoirs** disposable product	For easy plate inoculation with 1 test/plate.	350 units
M/R4-506-050	**2-Channel reservoirs** autoclavable	For easy plate inoculation with 2 tests/plate.	50 units
M/R4-506-350	**2-Channel reservoirs** disposable product	For easy plate inoculation with 2 tests/plate.	350 units
M/R4-508-050	**4-Channel reservoirs** autoclavable	For easy plate inoculation with 4 tests/plate.	50 units
M/R4-508-350	**4-Channel reservoirs** disposable product	For easy plate inoculation with 4 tests/plate.	350 units
M/B3-002-040	**MICRONAUT foil** perforated, 40 units	For sealing of MCN identification plates (included in standard packaging).	40 units
M/B3-004-040	**MICRONAUT foil** unperforated, 40 units	For sealing of MCN AST plates (included in standard packaging).	40 units

The MICRONAUT system prices are available on request. Please feel free to contact us.

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Y

Date of revision: 18/09/2018

Certificates

Translation from German

IFTA AG
Natürlich. Für Zukunft.

CERTIFICATE

The certification body confirms to

sifin diagnostics gmbh
Berliner Allee 317–321
13088 Berlin
Germany

for the development, manufacturing and sale of products for human and veterinary medical in-vitro-diagnostics as well as for the microbiological examination of water and food and other diagnostic applications the conformity of the introduced quality management system with the standard

DIN EN ISO 9001:2015

Start of validity:	07.07.2017
End of validity:	06.07.2020
Report and certificate number:	IC00016 038 17
The certificate consists of	1 page

This certificate includes an annual examination of the QMS by IFTA AG, according to the specified standard.

Berlin, 06.07.2017

Prof. Dr. Jörn Karge
CEO

DAkkS
Deutsche
Akkreditierungsstelle
D-ZM-16072-01-00

IFTA AG | Neukirchstraße 26 | 13089 Berlin | fon 0049.30.47 88 03 0 | fax 0049.30.47 88 03 20 | web www.ifta-ag.de
Rev.: 1

Certificate

mdc medical device certification GmbH
certifies that

sifin

sifin diagnostics gmbh
Berliner Allee 317-321
13088 Berlin
Germany

for the scope

development, manufacturing and distribution of
in vitro diagnostic medical devices for the product groups:
blood grouping, bacteriological test reagents and culture media as well as
manufacturing of raw materials for manufacturing of
in vitro diagnostic medical devices

has introduced and applies a

Quality Management System

The mdc audit has proven that this quality management system
meets all requirements of the following standard

EN ISO 13485

Medical devices – Quality management systems –
Requirements for regulatory purposes

EN ISO 13485:2016 + AC:2016 - ISO 13485:2016

Valid from	2018-10-23
Valid until	2021-10-22
Registration no.	D1058700042
Report no.	P18-00745-121758
Stuttgart	2018-07-16

Head of Certification Body

medical device certification mdc

DAkkS Deutsche Akkreditierungsstelle D-ZM-16002-06-00

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Internet: http://www.mdc-ce.de

For electronic publication only

Certificates

DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-20980-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 12.07.2018 to 11.07.2023 Date of issue: 12.07.2018

Holder of certificate:

sifin diagnostics gmbh
Prüflaboratorium Nährmedien
Berliner Allee 317-321, 13088 Berlin

Tests in the fields:

microbiological analysis of culture media at area food, animal feed and water

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

DIN EN ISO 11133 2015-01	Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media (*withdrawn standard*)

Abbreviations used:

DIN	German Institute for Standardisation (Deutsches Institut für Normung e. V.)
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization

This document is a translation. The definitive version is the original German annex to the accreditation certificate. 1/1

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