



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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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.

Blood Grouping Serology

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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-A₁, lectin	Extract from seeds of <i>Dolichos biflorus</i>	5 ml
BG 1212	Anti-H, lectin	Extract from seeds of <i>Laburnum alpinum</i>	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'	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 antiglobulin 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 ABO+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 ₁ B and A ₂ B. 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 ₁ B and A ₂ B. 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 ₁ B and A ₂ B. 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 ₁ B and A ₂ B. 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 ₂ B positive; with A ₁ and A ₁ B 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 <i>Salmonella</i> 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, γ, 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:6₁	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_{4r}z₂₃		lyophilised	1 ml

Art. No.	Product	Description	Phase induction	Liquid Lyo.	Packing
TS 1426	Anti-Salmonella H:z₆			lyophilised	1 ml
TR 1427	Anti-Salmonella H:z₁₀		x	liquid	1 ml
TR 1439	Anti-Salmonella H:z₁₃	for use by reference labs		liquid	1 ml
TS 1428	Anti-Salmonella H:z₁₅			lyophilised	1 ml
TR 1440	Anti-Salmonella H:z₂₃			lyophilised	1 ml
TS 1429	Anti-Salmonella H:z₂₄			lyophilised	1 ml
TS 1449	Anti-Salmonella H:z₂₈			lyophilised	1 ml
TS 1430	Anti-Salmonella H:z₂₉			lyophilised	1 ml
TS 1431	Anti-Salmonella H:z₃₂			lyophilised	1 ml
TR 1445	Anti-Salmonella H:z₃₅		x	lyophilised	1 ml
TR 1447	Anti-Salmonella H:z₃₈		x	lyophilised	1 ml
TR 1448	Anti-Salmonella H:z₄₁		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	<i>S. flexneri</i> , type 1 to 6, group 3,4 (y), 6 and 7,8 (x) and <i>S. sonnei</i> S and F form (phase I and II)	lyophilised	1 ml
TR 1815			lyophilised	5 ml
TS 1821	Anti-Shigella II	<i>S. dysenteriae</i> , type 1 to 10	lyophilised	1 ml
TS 1825			lyophilised	5 ml
TS 1831	Anti-Shigella III	<i>S. boydii</i> , 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	<i>S. flexneri</i> Type 1b, 2a, 3a, 4a	liquid	2 ml
TS 1511	Control antigen Shigella dysenteriae	<i>S. dysenteriae</i> Type 1, 2, 3, 7	liquid	2 ml
TS 1512	Control antigen Shigella boydii	<i>S. boydii</i> Type 1, 2, 5, 8	liquid	2 ml
TS 1513	Control antigen Shigella sonnei	<i>S. sonnei</i> S-form (phase I) <i>S. sonnei</i> F-form (phase II)	liquid	2 ml

Yersinia Diagnostics

Monospecific test reagents Anti-Yersinia enterocolitica O

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

Art. No.	Product	Liquid Lyo.	Packing
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,	lyophilised	1 ml
TS 2115		O 125:K 70, O 142:K 86, O 158:K -	lyophilised	5 ml
TR 2121	Anti-Coli II	O 55:K 59, O 86:K 61, O 91:K -,	lyophilised	1 ml
TR 2125		O 111:K 58, O 119:K 69, O 126:K 71, O 127:K 63, O 128:K 67	lyophilised	5 ml
TR 2131	Anti-Coli III	O 25:K 11, O 78:K 80, O 103:K -,	lyophilised	1 ml
TR 2135		O 118:K -, O 124:K 72, O 145:K -, O 157:K -, O 164:K -	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 <i>E. coli</i> types listed as monospecific (TS 2611, TS 2612, TS 2613, TS 2614) and the fimbrial antigen F 5 (K 99).	liquid	1 ml
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 <i>E. coli</i> 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

We are manufacturer of more than 200 different culture media and supplements in order to cultivate the microorganisms or specifically promote the growth of particularly fastidious species.

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 vibrios.	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 <i>Bacillus cereus</i> 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 <i>Staphylococcus aureus</i> 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 <i>Enterobacteriaceae</i> and various aerobic 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 <i>Enterobacteriaceae</i> and various aerobic gram-negative bacteria from clinical material. Advantage: β -D-glucuronidase-positive <i>E. coli</i> 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 <i>Escherichia coli</i> 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 <i>E. coli</i> 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 <i>Salmonella</i> 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 <i>S. Typhi</i>) 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. <i>Enterobacteriaceae</i> .	500 g
TN 1078	Buffered Nitrate Motility Medium	for 25.0 l culture medium (20.0 g for 1 l culture medium) Confirmation of <i>Clostridium perfringens</i> (acc. to § 64 German Food and Feed Code). Addition of glycerin TN 1424.	500 g
TN 1137	Buffered Peptone Water (BPW)	for 25.0 l culture medium (20.0 g for 1 l culture medium)	500 g
TN 1226		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.	5 kg
TN 1025	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)	500 g
TN 1046		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).	5 kg

Dehydrated Culture Media

C

Art. No.	Product	Description	Packing
TN 1031	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)	500 g
TN 1033		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).	5 kg
TN 1263	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)	500 g
TN 1255		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 filtration. Culture medium for testing non-sterile products based on the recommendations of the harmonised method acc. to EP/USP/JP (2006).	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 <i>Pseudomonas aeruginosa</i> . 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 <i>E. coli</i> 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 <i>E. coli</i> 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 <i>Clostridia</i> 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 <i>Clostridia</i> . 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 <i>Candida albicans</i> . 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	DEV Lactose Peptone Broth	for 14.3 l culture medium (35.0 g for 1 l culture medium)	500 g
TN 1228		for 142.9 l culture medium (35.0 g for 1 l culture medium) Enrichment and determination of the germ count of <i>E. coli</i> and coliform bacteria in water.	5 kg
TN 1128	DEV Nutrient Agar	for 14.3 l culture medium (35.0 g for 1 l culture medium)	500 g
TN 1248		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.	5 kg
TN 1013	DIASSALM (Diagnostic Semi-Solid Salmonella Agar)	for 8.7 l culture medium (57.2 g 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	Double Buffered Peptone Water (Peptone Water Double Buffered)	for 20.0 l culture medium (25.0 g for 1 l culture medium)	500 g
TN 1244		for 200 l culture medium (25.0 g for 1 l culture medium) Pre-enrichment of pathogenic <i>Enterobacteriaceae</i> from foodstuffs and other test material, in particular with highly sour or acid-producing products.	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 <i>Enterobacteriaceae</i> . 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 <i>Enterobacteriaceae</i> , in particular salmonellae and shigellae, and for the identification of <i>Candida albicans</i> .	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 <i>Listeria</i> 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 <i>Listeria</i> 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 <i>Listeria</i> 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 <i>Clostridium perfringens</i> (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 <i>Enterobacteriaceae</i> 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 aerobic 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 <i>Pseudomonas</i> sp. and <i>Aeromonas</i> 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 <i>Enterobacteriaceae</i> 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 <i>Pseudomonas aeruginosa</i> (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 <i>Enterobacteriaceae</i> . 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 <i>E. coli</i> 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 <i>E. coli</i> 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 <i>E. coli</i> 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 <i>E. coli</i> 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 installations.	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 <i>Enterobacteriaceae</i> .	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 <i>Enterobacteriaceae</i> 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	MacConkey Agar acc. to harm. EP/USP/JPP	for 10.0 l culture medium (50.0 g for 1 l culture medium)	500 g
TN 1074		for 100.0 l culture medium (50.0 g for 1 l culture medium) Test for <i>Escherichia coli</i> . Culture medium for testing nonsterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JPP (2006).	5 kg
TN 1027	MacConkey Broth acc. to harm. EP/USP/JPP	for 14.3 l culture medium (35.0 g for 1 l culture medium) Test for <i>Escherichia coli</i> . Culture medium for testing nonsterile products. This culture medium is based on the recommendations of the harmonised method acc. to EP/USP/JPP (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 <i>salmonellae</i> 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 <i>Pseudomonas aeruginosa</i> 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 <i>Staphylococcus aureus</i> . 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 <i>Clostridium perfringens</i> (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 <i>coli</i> -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 <i>E. coli</i> 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 <i>E. coli</i> 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 <i>Lactobacillus</i> 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 <i>Lactobacillus</i> 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 <i>Lactobacillus</i> 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	Mueller Hinton Agar (MHA)	for 13.2 l culture medium (38.0 g for 1 l culture medium)	500 g
TN 1250		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.	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 <i>Bacillus cereus</i> 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	Nutrient Agar I	for 14.3 l culture medium (35.0 g for 1 l culture medium)	500 g
TN 1165		for 142.9 l culture medium (35.0 g for 1 l culture medium)	5 kg
		Universal culture medium for the cultivation of fastidious microorganisms. Blood may be added.	
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	Nutrient Broth	for 62.5 l culture medium (8.0 g for 1 l culture medium)	500 g
TN 1251		for 625 l culture medium (8.0 g for 1 l culture medium)	5 kg
		Cultivation of less fastidious microorganisms.	
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 <i>Listeria monocytogenes</i> 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 <i>Aspergillus niger</i> 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 <i>Pseudomonas aeruginosa</i> 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 <i>Clostridia</i> . 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 <i>Candida albicans</i> via the formation of chlamydo spores. 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 <i>Candida albicans</i> . 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 <i>Candida albicans</i> . 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	Sabouraud 2%Glucose Agar (Sabouraud Dextrose Agar)	for 11.9 l culture medium (42.0 g for 1 l culture medium)	500 g
TN 1252		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.	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 <i>Enterobacteriaceae</i> 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 <i>E. coli</i> 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 <i>Proteus</i> 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 <i>E. coli</i> 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 <i>E. coli</i> 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 <i>Listeria</i> 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 <i>Enterobacteriaceae</i> 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 <i>Clostridium perfringens</i> and other sulfitereducing <i>Clostridia</i> 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. <i>Proteus</i> sp. and <i>Klebsiella</i> 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 <i>Enterobacteriaceae</i> 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	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)	500 g
TN 1195		for 99.4 l culture medium (50.3 g for 1 l culture medium)	5 kg
		Detection and isolation of <i>Enterobacteriaceae</i> from foodstuffs (especially meat) and other test materials.	
TN 1210	Wort Agar (Base)	for 10.4 l culture medium (48.0 g for 1 l culture medium)	500 g
		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.	
TN 1211	Wort Broth (Base)	for 15.2 l culture medium (33.0 g for 1 l culture medium)	500 g
		Detection, isolation and determination of the colony count of yeasts and fungi. Addition of glycerin TN 1424.	

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)	500 g
		Test for <i>Salmonella</i> . Medium for testing non-sterile products. Medium is based on the recommendation of the harmonised method acc. to EP/USP/JP (2006).	
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)	500 g
		Isolation of salmonellae and shigellae from foodstuffs, clinical materials and pharmaceuticals.	

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

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 <i>Bacillus cereus</i> . 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 <i>Campylobacter</i> 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 <i>Campylobacter</i> spp., in particular <i>Campylobacter fetus</i> . 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 <i>Bacillus</i> spp., in particular of <i>Bacillus cereus</i> 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 <i>Staphylococcus aureus</i> 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 <i>Listeria monocytogenes</i> . 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 <i>Listeria monocytogenes</i> . 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 <i>Clostridium perfringens</i> (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 enteropathogenic <i>E. coli</i> . 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 <i>Listeria monocytogenes</i> . 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 <i>Pseudomonas aeruginosa</i> . 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 <i>Clostridium perfringens</i> . 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 <i>Yersinia enterocolitica</i> . 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 <i>Pseudomonas aeruginosa</i> . Ready-to-use Acetamide Solution acc. to DIN EN ISO 16266. 1 bottle contains 5 ml Acetamide Solution. Addition of Nessler's Reagent TN 1515, TN 1516.	
TN 1519	Acid Phosphatase Reagent	Reagent is used in accordance with ISO 14189 to detect acid phosphatase from <i>Clostridium perfringens</i> . 6 vials dye reagent, 1 bottle buffer	6 vials + 1 btl
TN 1515	Nessler's 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 <i>Pseudomonas aeruginosa</i> . In conjunction with Acetamide Solution TN 1512, TN 1513.	
TN 1517	Oxidase Reagent	for 12 tests Used for the oxidase reaction. 1 vial in 2 ml distilled water.	12 x 1 vial

Ready-to-use Culture Media

Ready-to-use culture media

Art. No.	Product	Description	Packing
TN 1707	MegaPec Broth	Selective enrichment of gram-negative beer spoiling bacteria belonging to the genera <i>Pectinatus</i> and <i>Megasphaera</i> . 1 tube contains 12 ml broth.	20 tubes
TN 1708			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 antimicrobial 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.



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 <i>Enterobacteriaceae</i> 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 <i>Enterobacteriaceae</i> , 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

SALE

SALE

SALE

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). <u>According to the EUCAST and CLSI recommendations of March 2016 and the study of November 2016.</u>	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 β-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 staphylococci (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 <i>Campylobacter</i> .	18 - 24 hrs	visually or photometrically	40 plates
M/E1-166-040	MICRONAUT-S Pneumo- cocci & Haemophilus MIC	1 test/plate Determine resistances by measuring MIC for all relevant antimicrobial agents against pneumococci and <i>Haemophilus</i> .	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

NEW

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 automatized 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

NEW

NEW

NEW

NEW

NEW

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NEW

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
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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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Certificates

Translation from German



CERTIFICATE

The certification body confirms to

sifin diagnostics gmbh
Berliner Allee 317-321
13088 Berlin
Germany

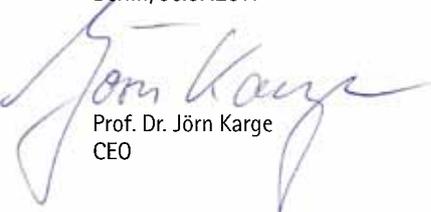
for the development, manufacturing and sale of products for human and veterinary medical in-vitro-diagnostics as well as for the microbiological examination of water and food and other diagnostic applications the conformity of the introduced quality management system with the standard

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



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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



mdc medical device certification GmbH
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Certificates



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 (<i>withdrawn standard</i>)
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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

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Bacteriological test reagents

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Greece

Blood group products

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Blood group products

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Hungary

Bacteriological test reagents

Culture media

Blood group products

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Italy

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Culture media

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Bacteriological test reagents

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Kosovo

Bacteriological test reagents

Culture media

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Latvia

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Culture media

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Lebanon

Blood group products

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Bacteriological test reagents

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Malta

Bacteriological test reagents

Culture media

E.J. Busuttill Ltd.
Phone: +356-21-447184
Fax: +356-21-445366
E-Mail: info@ejbusuttill.com
www.ejbusuttill.com

Moldova

Bacteriological test reagents

IM Global Biomarketing Group
Phone: +373-22-54-73-73
Fax: +373-22-54-73-73
E-Mail: office@gbg.md
www.gbg.md

Mongolia

MICRONAUT

Monbiopharm Co. Ltd.
Phone: +976-99-156493
Fax: +976-11-324420
E-Mail: delgermaa.e@monbiopharm.mn
www.monbiopharm.mn

Montenegro

Bacteriological test reagents

Morazzia Laboratory
Phone: +382-40-235500
Fax: +382-40-257035
E-Mail: morazzia@cg.yu

Morocco

Bacteriological test reagents

Blood group products

Top Labo
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Fax: +212-52-2989223
E-Mail: toplabo0@gmail.com

Netherlands

Bacteriological test reagents

Culture media

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bioTRADING Benelux B. V.
(DiaMondial Group)
Phone: +31-297-286848
Fax: +31-297-287570
E-Mail: info@biotrading.com
www.biotrading.com

New Zealand

Bacteriological test reagents

Ngaio Diagnostics
Phone: +64-3-5484727
Fax: +64-3-5484729
E-Mail: info@ngaio.co.nz
www.ngaio.co.nz

Norway

Bacteriological test reagents

MICRONAUT

Montebello Diagnostics AS
Phone: +47-22141490
Fax: +47-22144490
E-Mail: mail@montebello.no
www.montebello.no

Panama

Bacteriological test reagents

Inversiones Sagrav S.A.
Phone: +507-2330902
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Philippines

Bacteriological test reagents

Goldquest Biotechnologies Inc.
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Fax: +63-2-2433486
E-Mail: quest-diagnostic@pldtsl.net
www.goldquest-biotechnologies.com

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Scientific Biotech Specialties Inc
Phone: +63-2-8996557
Fax: +63-2-8969382
E-Mail: sbsi.diag@sbsi.com.ph
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Poland

Bacteriological test reagents

Nobipharm Sp.z.o.o.
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Fax: +48-22-6339802
E-Mail: info@nobipharm.pol.pl
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Bacteriological test reagents

Graso Zenon Sobiecki
Phone: +48-58-562-30-21
Fax: +48-58-562-79-87
E-Mail: zamowienia@graso.com.pl
www.podloza.pl

Portugal

Blood group products

Iberlab & Immunoreage solucoes
para laboratório, lda.
Phone: +351-22-2087876
Fax: +351-22-2054328
E-Mail: iberlab@iberlab.pt
www.iberlab.pt

MICRONAUT

Quilaban
Phone: +351-21-9236372
Fax: +351-21-9236389
E-Mail: k.ferreira@quilaban.pt
www.quilaban.pt

Romania

Culture media

SC EMSAR SRL
Phone: +40-31-1013182
Fax: +40-21-6671243
E-Mail: office@emsar.ro
www.emsar.ro

Bacteriological test reagents

Eurovet Lab
Phone: +40-21-3102153
Fax: +40-21-3102154
E-Mail: cosmin@eurovet-lab.ro

Blood group products

SC Vitro Biochem srl
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Fax: +40-21-4116023
E-Mail: office@vitro.ro

Russia

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Culture media

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Phone: +74-95-7870432
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www.hemltd.ru

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SY-LAB ooo
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Fax: +495 739 58 56
E-Mail: jane@sy-lab.ru
www.sy-lab.ru

Saudi-Arabia

Bacteriological test reagents

Gamsco
Phone: +966-3-839-4085
Fax: +966-3-839-4084
E-Mail: sales@gamscomed.com
www.gamscomed.com

Slovenia

Bacteriological test reagents

Mediline d.o.o.
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Fax: +386-1-8308070
E-Mail: info@mediline.si
www.mediline.si

South Africa

Blood group products

Ethitech
Phone: +27-21-855-0307
Fax: +27-86-657-1986
E-Mail: sarah@ethitech.co.za
www.ethitech.co.za

Spain

Bacteriological test reagents

Blood group products

Werfen Iberia
(DiaMondial Group)
Phone: +34-934-010211
Fax: +34-934-010350
E-Mail: allenderrozos@werfen.com
www.werfen.com

Sweden

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Miclev AB
Phone: +46-40-365400
E-Mail: elin.wallin@miclev.se
www.miclev.se

Switzerland

Bacteriological test reagents

MICRONAUT

Biotech (Schweiz) AG
Phone: +41-62-8890000
Fax: +41-62-8890001
E-Mail: mail.ch@biotest.com
www.biotest.ch

Taiwan

Bacteriological test reagents

Linkseas Trading Co., Ltd.
Phone: +886-2-27735142
Fax: +886-2-27721983
E-Mail: lks1976.tw@msa.hinet.net

Turkey

Blood group products

Toprak Medikal Ltd.
Phone: +90-212-6217016
Fax: +90-212-6217018
E-Mail: topramed@superonline.com

Ukraine

Bacteriological test reagents

NPF Ukrmedialab Ltd.
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Bacteriological test reagents

Culture media

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Alliance Global Group
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United Kingdom

Bacteriological test reagents

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Fax: +44-1782-510733
E-Mail: inbox@bcnx.co.uk
www.bioconnections.co.uk

Venezuela

Bacteriological test reagents

Blood group products

Culture media

Ganbaro
Phone: +58-212-5410501
Fax: +58-212-5410866
E-Mail: gerencia.producto@ganbaro.com.ve
www.ganbaro.com.ve

Vietnam

Blood group products

DEKA Co., Ltd., North Vietnam
Phone: +84-4-37830363
Fax: +84-4-37830364
E-Mail: deka@hn.vnn.vn
www.deka.vn

Blood group products

Phuong Dong TECHME Co., Ltd.
Phone: +84-4-66872909
E-Mail: vinhtruongtbyt@gmail.com

Vietnam

Blood group products

VAN XUAN, South Vietnam
Phone: +84-8-38-686-109
Fax: +84-8-38-686-157
E-Mail: triphuong@hcm.fpt.vn

Blood group products

DEKA JOINT STOCK CO., South Vietnam
Phone: +84-8-62-638-402
Fax: +84-8-62-638-451
E-Mail: dekahcm@hcm.vnn.vn
www.dekavn.com

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