

Date: 01<sup>st</sup> January 2021**TO WHOMSOEVER IT MAY CONCERN**

We hereby certify that,

**Sanmedico SRL**  
**Str. Corobceanu 7A, Apt.9,**  
**MD-2012, CITY CHISINAU**  
**Republic of Moldova,**  
**Tel:-00-373-231 31515 / 00-373-222 60595**  
**Fax:-00-373-22 62 30 32**  
**E-mail: sanmedico.office@gmail.com**

have been appointed by us as our **Exclusive Authorized Distributor** for selling our Products in **MOLDOVA**

*This certificate is valid upto 31<sup>st</sup> December 2022.*

This Authorization Letter shall stand effective from the date of signing and can be terminated by either party with two months advance notice.

For **HIMEDIA LABORATORIES PVT. LTD.,**

**V.M.WARKE.**

**DIRECTOR – SALES & MARKETING**





Certification & Inspection

# Certificate of Compliance



We hereby declare that the technical file of product complied with the requirement of directives (98/79/EC) In-Vitro Diagnostic Devices Directive.

**Certificate No.: CE-12574**

## Manufacturer

Name : M/S. HIMEDIA LABORATORIES PVT. LTD.

Address : 23, VADHANI INDUSTRIAL ESTATE LBS MARG,  
MUMBAI- 400086, MAHARASHTRA, INDIA

Products : HI-GEL™ RUN0610, HI-GEL™ RUN1014, ELECTROPHORESIS POWER SUPPLY(4 TERMINAL), ELECTROPHORESIS POWER SUPPLY (2 TERMINAL), HI-GEL™ RUN0608, HI ECO MINI HORIZONTAL ELECTROPHORESIS SYSTEM, WEE VERT® PROTEIN ELECTROPHORESIS SYSTEM, WEE BLOT™ ELECTROPHORESIS SYSTEM, HI-GEL™ RUN 100 WELL, HI-GEL™ CASTER, CELLULOSE ACETATE ELECTROPHORESIS SYSTEM, PRIMA DUO, PRIMA 96, ECO 96, PRIMA TRIO, PRIMA 96PLUS, PRIMA 384, WEE 16®, WEE 32®, WEE 16 GO®, INSTA Q96®, INSTA Q48®M4, INSTA Q48®M2, INSTA Q96® PLUS, INSTA Q96®-6.0, INSTA NX®, INSTA NX® MAG32, INSTA NX® MAG96, HI-UV MAX, HI-WHITE SET, HI-UV INTENSE, HI-UV DUO, TABSPIN®006, TABSPIN®012, HI-REFRI™24, HIPER® TEMP SHAKER, HIPURA® SANITIZER, WEE DRY™

The Certification body has performed an audit of the above product quality system covering the design, manufacture and final inspection of the certified product. The quality system has been assessed, approved and is subject to continuous surveillance according to Directive (98/79/EC) In-Vitro Diagnostic Devices Directive.

## This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type-examination procedures, if requested.
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.
3. The certificate validity is conditioned by positive results or surveillance audits.

The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at [www.ukcertifications.co.uk/verify](http://www.ukcertifications.co.uk/verify)

Date of Certification	16th March 2021
1 <sup>st</sup> Surveillance Audit Due	15th March 2022
2 <sup>nd</sup> Surveillance Audit Due	15th March 2023
Certificate Expiry (subject to the company maintaining its system to the required standard)	15th March 2024

*Daniel..*



## Authorised Signatory

This certificate is the property of UK Certification & Inspection Limited and shall be returned immediately on request.  
71-75 Shelton Street, Covent Garden, London, WC2H 9JQ, United Kingdom  
Website:- [www.ukcertifications.org.uk](http://www.ukcertifications.org.uk), email:- [info@ukcertifications.org.uk](mailto:info@ukcertifications.org.uk)  
Company No. 11847851



THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

Quality Austria

has issued an IQNet recognized certificate that the organization:

**HiMedia Laboratories Pvt. Ltd.**

**Plot NO. C40, ROAD - 21Y, WAGLE INDUSTRIAL ESTATE,  
THANE (WEST) - 400604 MAHARASHTRA, INDIA**

for the following scope:

**Design, Development & Testing of Biosciences Products for application in Microbiology,  
Animal Cell Culture & Molecular Biology products**

EAC: 34

has implemented and maintains a

## QUALITY MANAGEMENT SYSTEM

which fulfils the requirements of the following standard

### ISO 13485:2016

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Issued on:	2022-02-28
Validity date:	2025-02-27
Quality Austria certified since:	2022-02-28

**Registration Number: AT-00391/0**

**Alex Stoichitoiu**  
*President of IQNet*

**Mag. Friedrich Khuen-Belasi**  
*Authorised Representative  
of Quality Austria*



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Plant Tissue Culture & Molecular Biology products**

EAC: 34

has implemented and maintains a

## QUALITY MANAGEMENT SYSTEM

which fulfils the requirements of the following standard

### ISO 9001:2015

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Issued on:	2022-02-28
Validity date:	2025-02-27
Quality Austria certified since:	2022-02-28

**Registration Number: AT-27302/0**

**Alex Stoichitoiu**  
President of IQNet

**Mag. Friedrich Khuen-Belasi**  
Authorised Representative  
of Quality Austria



**IQNet Partners\*:**

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CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA  
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\* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under [www.iqnet-certification.com](http://www.iqnet-certification.com)



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## Bromothymol blue, Hi-Cert™/ACS

**GRM120**

### Product Identifier

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CAS No.	:	76-59-5
EC No.	:	200-971-2
Molecular Formula	:	C <sub>27</sub> H <sub>28</sub> Br <sub>2</sub> O <sub>5</sub> S
Molecular Weight	:	624.38
Synonym	:	3',3''-Dibromothymolsulfonphthalein
HS Code	:	2934 99 00
Storage	:	Below 30°C
Shelf life	:	4 years

### Technical Specification

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Appearance	:	Light pink to brown or purple or buff crystals or powder
Solubility	:	20 ppm in ethanol yields clear solution
Visual pH Transition	:	pH 5.80 (yellow) to pH 7.60 (blue)
Absorption maxima 1	:	428 - 438 nm (20 ppm in pH 5.80 buffer solution)
Absorption maxima 2	:	611 - 621 nm (20 ppm in pH 7.60 buffer solution)
Specific Absorbance 1	:	260 - 300 (20 ppm in pH 5.80 buffer solution, at 433 nm)
Specific Absorbance 2	:	470 - 520 (20 ppm in pH 7.60 buffer solution, at 616 nm)
Loss on drying (at 110°C, 1 hr)	:	<= 3.00%

### Safety Information

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UN No.	:	Not dangerous goods
Class	:	-
Packing Group	:	-
WGK	:	3

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## Tween®80

**GRM159**

### Product Identifier

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CAS No.	:	9005-65-6
EC No.	:	500-019-9
Synonym	:	Polyoxyethylenesorbitan monooleate; Polysorbate-80
HS Code	:	3402 90 99
Storage	:	Below 30°C
Shelf life	:	4 years

### Technical Specification

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Appearance	:	Yellow to amber coloured viscous, oily liquid
Solubility	:	1 mL miscible in 1 mL of water
pH (5% in water at 25°C)	:	6.00 - 8.00
FTIR	:	Matches with the standard pattern
Hydroxyl value	:	65 - 80
Saponification value	:	45 - 55
Acid value	:	<= 2.0
Iodine value	:	18 - 24
Sulphated ash	:	<= 0.2%
Water (K.F.)	:	<= 3.0%

### Safety Information

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UN No.	:	Not Dangerous goods
Class	:	-
Packing Group	:	-
RTECS	:	WG2932500
WGK	:	1

**GRM408 Silver nitrate, Hi-LR™****Product Number Packing**

GRM408	: 100G
GRM408	: 10G
GRM408	: 25G


**Product Information**

Product Code	: GRM408
Product Name	: Silver nitrate, Hi-LR™
Synonym	: Nitric acid silver(I) salt
Molecular Formula	: AgNO <sub>3</sub>
Molecular Weight	: 169.87
CAS No.	: 7761-88-8
EC No.	: 231-853-9
HS Code	: 2843 21 00
EC Index No.	: 047-001-00-2
Shelf Life	: 4 years


**Technical Specification**

Appearance	: White crystals or powder, darkening on exposure to light.
Solubility	: 1000 mg soluble in 1 mL of water
Chloride (Cl)	: <= 0.001%
Iron (Fe)	: <= 0.01%
Sulfate (SO <sub>4</sub> )	: <= 0.02%
Assay (NH <sub>4</sub> SCN Titration)	: 99.00 - 100.50%

**GHS Safety Information**

Hazard Statement(s)	: H272-H314-H410
Precautionary Statement(s)	: P220-P273-P280-P305+P351+P338-P310-P501
Signal Word	: Danger
Hazard Pictogram(s)	

**Risk and Safety Information**

R-Phrase(s)	: 8-34-50/53
S-Phrase(s)	: 26-36/37/39-45-60-61
WGK	: 3
RTECS	: VW4725000
Storage Temperature(°C)	: Store below 30°C
Hazard Symbol(s)	



# Product Information

## Transport Information

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UN No.	:	1493
Class	:	5.1
Packaging Group	:	2
Marine Pollutant	:	Yes
ADR/RID	:	1493 5.1/PG 2
IMDG	:	1493 5.1/PG 2
IATA	:	1493 5.1/PG 2

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Fax:+91-022-6147 1920 Gram : STERILITY . email : info@himedialabs.com. Visit us at our website: www.himedialabs.com

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The information contained herein is believed to be accurate and complete. However no warranty or guarantee whatsoever is made or is to be implied with respect to such information or with respect to any product, method or apparatus referred to herein



**GRM912 Bromocresol purple, Practical grade****Product Number Packing**

GRM912	: 25G
GRM912	: 5G

**Product Information**

Product Code	: GRM912
Product Name	: Bromocresol purple, Practical grade
Synonym	: 5-5'-Dibromo-o-cresolsulphonphthalein, Practical grade; Bromocresol purple sultone
Molecular Formula	: $C_{21}H_{16}Br_2O_5S$
Molecular Weight	: 540.22
CAS No.	: 115-40-2
EC No.	: 204-087-8
HS Code	: 2934 99 90
Shelf Life	: 4 years


**Technical Specification**

Appearance	: Grey to light purple or pink to yellow-tan crystals or powder
Solubility	: 20 ppm in 50% ethanol yields clear solution
Visual pH Transition	: pH 5.20 (yellow) - pH 6.80 (purple)
FTIR (KBr disc)	: Matches with the standard pattern
Absorption maxima (pH 5.2)	: 426 - 436 nm (20 ppm in 50% ethanol)
Absorption maxima (pH 6.8)	: 584 - 594 nm (20 ppm in 50% ethanol)
Loss on drying (at 110°C, 2hr)	: $\leq 5.0\%$

**GHS Safety Information**

Hazard Statement(s)	: H315-H319-H335
Precautionary Statement(s)	: P261-P305+P351+P338
Signal Word	: Warning
Hazard Pictogram(s)	

**Risk and Safety Information**

R-Phrase(s)	: 36/37/38
S-Phrase(s)	: 26-36
WGK	: 3
Storage Temperature(°C)	: Store below 30°C
Hazard Symbol(s)	 Irritant

**Transport Information**

Marine Pollutant	: No
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## Product Information

ADR/RID : Not Dangerous Goods  
IMDG : Not Dangerous Goods  
IATA : Not Dangerous Goods

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Fax:+91-022-6147 1920 Gram : STERILITY . email : info@himedialabs.com. Visit us at our website: www.himedialabs.com

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**GRM914 Bromophenol blue, Practical grade**

**Product Number Packing**

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GRM914 : 25G  
GRM914 : 5G

**Product Information**

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Product Code : GRM914  
Product Name : Bromophenol blue, Practical grade  
Molecular Formula :  $C_{19}H_{10}Br_4O_5S$   
Molecular Weight : 669.96  
CAS No. : 115-39-9  
EC No. : 204-086-2  
HS Code : 2934 99 90  
Shelf Life : 4 years

**Technical Specification**

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Appearance : Beige to brown or purple crystals or powder  
Solubility : 20 ppm in ethanol yields clear solution  
Visual pH Transition : pH 3.00 (yellow) - pH 4.60 (blue)  
Absorption maxima 1 : 432 - 442 nm (20ppm in pH 3.10 buffer solution)  
Absorption maxima 2 : 586 - 596 nm (20ppm in pH 4.60 buffer solution)  
Loss on drying (at 105°C, 2hr) :  $\leq 5.00\%$

**Risk and Safety Information**

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WGK : 3  
RTECS : SJ7453000  
Storage Temperature(°C) : Store below 30°C

**Transport Information**

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Marine Pollutant : No  
ADR/RID : Not Dangerous Goods  
IMDG : Not Dangerous Goods  
IATA : Not Dangerous Goods

## Methylene blue trihydrate, Practical grade

**GRM956**


### Product Identifier

CAS No.	:	7220-79-3
EC No.	:	200-515-2
C.I. No.	:	52015
Molecular Formula	:	$C_{16}H_{18}ClN_3S \cdot 3H_2O$
Molecular Weight	:	373.90
HS Code	:	3212 90 90
Storage	:	Below 30°C
Shelf life	:	4 years

### Technical Specification

Appearance	:	Green to dark green crystals or powder with metallic luster
Solubility	:	20 ppm in water yields clear blue solution
Absorption maxima	:	658 - 668 nm (20 ppm in water)
Loss on drying (at 105°C, 2 hr)	:	8.00 - 18.00%

### Safety Information

Hazard Pictogram(s)	:	
Signal Word	:	Warning
Hazard Statement(s)	:	H302- H315- H319- H335
Precautionary Statement(s)	:	P261- P305+P351+P338
UN No.	:	Not dangerous goods
Class	:	-
Packing Group	:	-
RTECS	:	SP5740000
WGK	:	3

## Crystal violet, Practical grade

**GRM961**


### Product Identifier

CAS No.	:	548-62-9
EC No.	:	208-953-6
EC Index No	:	612-204-00-2
C.I. No.	:	42555
Molecular Formula	:	C <sub>25</sub> H <sub>30</sub> ClN <sub>3</sub>
Molecular Weight	:	407.98
Synonym	:	Methyl violet 10, Practical grade; Gentian violet, Practical grade
HS Code	:	3212 90 90
Storage	:	Below 30°C
Shelf life	:	4 years

### Technical Specification

Appearance	:	Green to green-brown crystals or powder or glistening pieces with metallic luster
Solubility	:	20 ppm in water yields clear dark purple solution
FTIR	:	Matches with the standard pattern
Absorption maxima	:	580 - 595 nm (20 ppm in water)
Loss on drying (at 110°C, 2 hr)	:	<= 10.0%
Dye content	:	~ 75.0%

### Safety Information

Hazard Pictogram(s)	:	
Signal Word	:	Danger
Hazard Statement(s)	:	H302- H318- H351- H410
Precautionary Statement(s)	:	P273- P280- P305+P351+P338- P501
UN No.	:	3077
Class	:	9
Packing Group	:	III
RTECS	:	Not available
WGK	:	3

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## Starch soluble, Hi-AR™/ACS

**GRM3029**

### Product Identifier

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CAS No.	:	9005-84-9
EC No.	:	232-679-6
Molecular Formula	:	(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>
Molecular Weight	:	(162.14) <sub>n</sub>
HS Code	:	3505 10 90
Storage	:	Below 30°C
Shelf life	:	4 years

### Technical Specification

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Appearance	:	White powder or solid
Solubility	:	33.3 mg soluble in 1 mL of hot water
pH (2% in water at 25°C)	:	5.00 - 7.00
Clarity	:	1% in boiling water gives clear solution
Residue after ignition	:	<= 0.40%
Sensitivity	:	Passes test

### Safety Information

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UN No.	:	Not dangerous goods
Class	:	-
Packing Group	:	-
RTECS	:	GM5090000
WGK	:	1





## Grams Stain-Kit

K001

### Intended Use

Grams Stain Kit is used for differentiation of bacteria on the basis of their gram nature.

### Composition\*\*

#### Ingredients

##### Gram's Crystal Violet (S012)(Solution A)

Crystal Violet	2.000 gm
Ethyl alcohol,95%	20.000 ml

##### Gram's Crystal Violet (S012)(Solution B)

Ammonium oxalate	0.800 gm
Distilled Water	80.000 ml

Solution A and B are mixed and stored for 24 hours before use.The resulting stain is stable.

##### Gram's Decolourizer(S032) -

Ethyl alcohol, 95%	50.0 ml
Acetone	50.0 ml

##### Gram's Iodine(S013)

Iodine	1.000 gm
Potassium iodide	2.000 gm
Distilled water	300.000 ml

##### Safranin,0.5% w/v(S027)

Safranin O	0.500 gm
Ethyl alcohol, 95%	100.000 ml

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

- 1)Prepare a thin smear on clear, dry glass slide.
- 2)Allow it to air dry and fix by gentle heat.
- 3)Flood with Gram's Crystal Violet (S012) for 1 minute. (If over staining results in improper decolourization of known gram-negative organisms,use less crystal violet).
- 4)Drain the stain.
- 5)Flood the smear with Gram's Iodine (S013). Allow it to remain for 1 minute.
- 6)Decolourize with Gram's Decolourizer (S032) until the blue dye no longer flows from the smear.
- 7)Wash with tap water.
- 8)Counter stain with 0.5% w/v Safranin (S027). Allow it to remain for 1 minute.
- 9)Wash with water.
- 10)Allow the slide to air dry or blot dry between sheets of clean bibulous paper and examine under oil immersion objective.

### Principle And Interpretation

The Gram stain is a differential staining technique most widely applied in all microbiology disciplines laboratories. It is one of the most important criteria in any identification scheme for all types of bacterial isolates. Different mechanisms have been proposed to explain the gram reaction. There are many physiological differences between gram-positive and gram-negative cell walls (1). Ever since Christian Gram has discovered Gram staining, this process has been extensively investigated and redefined. In practice,a thin smear of bacterial cells is stained with crystal violet, then treated with an iodine containing mordant to increase the binding of primary stain (2). A decolourizing solution of alcohol or acetone is used to remove the crystal violet from cells which bind it weakly and then the counterstain (like safranin) is used to provide a colour contrast in those cells that are decolourized.

Gram-positive bacteria have a thick mesh-like cell wall made of peptidoglycan (50–90% of cell envelope), and as a result are stained purple by crystal violet, whereas gram-negative bacteria have a thinner layer (10% of cell envelope), so do not retain the purple stain and are counter-stained pink by safranin. In a properly stained smear by gram staining procedure, the gram-positive bacteria appear blue to purple and gram negative cells appear pink to red.

### Type of specimen

Clinical samples - Blood, urine, CSF, pus, wounds, lesions, body tissues, sputum etc. ; food & dairy samples ; Water samples

### Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3, 4).

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (5, 6).

For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards(7).

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions :

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets

### Limitations :

1. Use results of Gram stains in conjunction with other clinical and laboratory findings. Use additional procedures (e.g., special stains, inclusion of selective media, etc.) to confirm findings suggested by gram-stained smears (8).
2. False Gram stain results may be related to inadequately collected specimens or delay in transit.
3. Careful adherence to procedure and interpretive criteria is required for accurate results. Accuracy is highly dependent on the training and skill of microscopists (9).
4. The sensitivity of Gram stain is  $10^5$  cells/ml or  $10^4$  if the specimen has been prepared with the cytocentrifuge (10). This is particularly applicable to the smear of a drop of urine, where an average of the one bacterial cell per field from an examination of 20 fields correspond to a count of  $\geq 10^5$  cfu/ml.

### Performance and Evaluation

Performance of the product is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### Quality Control

#### Microscopic examination

Gram staining is carried out and observed under oil immersion lens.

#### Results

Gram-positive organisms : Violet coloured

Gram-negative organisms : Pinkish red coloured

### Storage and Shelf Life

Store between 10- 30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

### Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

## Reference

1. Lamanna and Mallette, 1965, Basic Bacteriology, 3rd ed., Williams and Wilkins Co., Baltimore.
2. Salton, 1964, The Bacterial Cell Wall, Elsevier, Amsterdam.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
5. Downes F. P. and Ito K. (Ed.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th ed., APHA, Washington, D.C.
6. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
7. Rice E.W., Baird, R.B., Eaton A. D., Clesceri L. S. (Eds.), 2012, Standard Methods for the Examination of Water and Wastewater, 22nd ed., APHA, Washington, D.C.
8. Brown, M.S., and T.C. Wu. 1986. The Gram stain morphology of fungi, mycobacteria, and Pneumocystis carinii. J. Med. Technol. 3:495-499.
9. Washington, J.A. 1986. Rapid diagnosis by microscopy. Clin. Microbiol. Newsl. 8:135-137.
10. Shanholtzer, C.J., P. Schaper, and L.R. Peterson. 1982. Concentrated Gram stain smear prepared with a cytopspin centrifuge. J. clin. Microbiol. 16:1052-1056

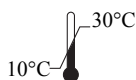
Revision : 02 / 2018



In vitro diagnostic medical device



CE Marking



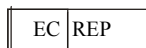
Storage temperature



Do not use if package is damaged



HiMedia Laboratories Pvt. Limited,  
23 Vadhani Industrial Estate,  
LBS Marg, Mumbai-86, MS, India



CE Partner 4U, Esdoornlaan 13, 3951  
DB Maarn The Netherlands,  
[www.cepartner4u.eu](http://www.cepartner4u.eu)

### Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

## 2,3,5-Triphenyltetrazolium chloride

**MB188**

### For Molecular Biology


#### Product Identifier

CAS No.	:	298-96-4
EC No.	:	206-071-6
Molecular Formula	:	C <sub>19</sub> H <sub>15</sub> N <sub>4</sub> Cl
Molecular Weight	:	334.80
HS Code	:	2933 99 90
Storage	:	Below 30°C
Shelf life	:	4 years

#### Technical Specification

Appearance	:	White to yellow crystals or powder
Solubility	:	33.3 mg soluble in 1 mL of water
DNases	:	None detected
RNases	:	None detected
FTIR	:	Matches with the standard pattern
Melting range	:	235 - 245°C
Assay (AT/NT)	:	min. 99.00%

#### Safety Information

Hazard Pictogram(s)	:	
Signal Word	:	Warning
Hazard Statement(s)	:	H315- H319- H335
Precautionary Statement(s)	:	P261- P305+P351+P338
UN No.	:	Not dangerous goods
Class	:	-
Packing Group	:	-
RTECS	:	XF8100000
WGK	:	3



## Kovac's Indole Reagent

R008

### Intended use

For detection of presence of indole produced by microorganisms due to tryptophan deamination.

### Composition\*\*

Ingredients	-
p-dimethylamino benzaldehyde	5.000
Amyl alcohol	75.000
Hydrochloric acid, concentrated	25.000

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Add 0.2 - 0.3 ml of Kovac's reagent to 5 ml of a 24 - 48 hours old culture of the organism under investigation. Formation of a red coloured ring indicates positive indole test.

### Principle And Interpretation

Peptone Water is particularly suitable as a substrate in the study of indole production. Peptone used in Peptone Water, is rich in tryptophan content (1). Other peptones which contain tryptophan can be used to study indole production. Tryptone Water is also recommended by APHA (2) for detection of indole production by coliforms, which is a key feature in differentiation of bacteria. It is used as part of the IMViC procedures. Most strains of *E. coli*, *P. vulgaris*, *P. rettgeri*, *M. morgani* and *Providencia* species break down the amino acid tryptophan with the release of indole. The presence of indole can be detected by the addition of Ehrlich's or Kovac's reagent (p-dimethylaminobenzaldehyde).

Kovacs reagent is a biochemical reagent consisting of isoamyl alcohol, para-dimethylaminobenzaldehyde (DMAB), and concentrated hydrochloric acid. It is used for the diagnostic test, to determine the ability of the organism to split tryptophan into indole and alpha-aminopropionic acid by hydrolytic activity of bacteria that express tryptophanase enzyme (3). The indole produced is indicated by formation of a red coloured ring, soluble in ether, chloroform and alcohol. This was invented by the Hungarian-Swiss Chemist, Ervin Kovacs. Indole production is used as, a tests designed to distinguish among members of the family Enterobacteria.

### Type of specimen

Clinical samples ; Water samples

### Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (4,5).

For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards(2).

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions :

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets

### Limitations :

1. Growth media must contain an adequate amount of tryptophan. Do not use Mueller- Hinton Agar for test, because tryptophan is destroyed during the acid hydrolysis of casein.
2. Do not used media that contain dyes (e.g., EMB, MAC).
3. Do not use medium with a nitrate disc/strip to perform the indole test, as nitrate can interfere with indole test by including false positive results.

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## Performance and Evaluation

Performance of the product is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### Quality Control

#### Appearance

Greenish yellow coloured solution

#### Solubility

Immiscible with water

#### Clarity

Clear with no insoluble particles.

#### Cultural Response

Characteristic reactions observed when Kovac's Indole Reagent is added to growth in Tryptone Broth (M463)

Organism	Indole production
<i>Enterobacter aerogenes</i> ATCC 13048	negative reaction ,no red ring
<i>Escherichia coli</i> ATCC 25922	positive reaction, red ring at the interface of the medium

### Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

### Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (4,5).

### Reference

1. MacFaddin J., 1980, Biochemical Tests for Identification of Medical Bacteria, 2nd ed., Williams and Wilkins, Baltimore.
2. Greenberg A. E., Clesceri L. S. and Eaton A. D., (Eds.), 2005, Standard Methods for the Examination of Water and Wastewater, 21st ed., APHA, Washington, D.C.
3. MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Williams and Wilkins, Baltimore.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2<sup>nd</sup> Edition.
5. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

Revision :01 / 2018

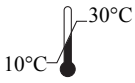




In vitro diagnostic medical device



CE Marking



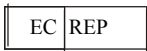
Storage temperature



Do not use if package is damaged



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**RM224 Carmine, Hi-Cert™**

**Product Number Packing**

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RM224 : 25G  
RM224 : 5G

**Product Information**

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Product Code : RM224  
Product Name : Carmine, Hi-Cert™  
Synonym : Alum lake of carminic acid; Natural Red 4  
CAS No. : 1390-65-4  
EC No. : 215-724-4  
HS Code : 3212 90 00  
Colour Index No. : 75470  
Shelf Life : 4 years

**Technical Specification**

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Appearance : Red to dark red to red-purple crumbly solid or powder  
Solubility : 20 ppm in alkali gives clear solution  
Sulphated ash : <= 12.00%  
Loss on drying (at 135°C, 3hr) : <= 20.0%  
Carminic acid (UV, on dry basis) : >= 42.00%

**Risk and Safety Information**

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WGK : 1  
RTECS : FH8891000  
Storage Temperature(°C) : Store below 30°C

**Transport Information**

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Marine Pollutant : No  
ADR/RID : Not Dangerous Goods  
IMDG : Not Dangerous Goods  
IATA : Not Dangerous Goods

**RM1073 N-(1-Naphthyl)ethylenediamine dihydrochloride, A.R.****Product Number Packing**

RM1073	: 25G
RM1073	: 5G

**Product Information**

Product Code	: RM1073
Product Name	: N-(1-Naphthyl)ethylenediamine dihydrochloride, A.R.
Synonym	: 2-(1-Naphthylamino)ethylamine dihydrochloride
Molecular Formula	: $C_{12}H_{14}N_2 \cdot 2HCl$
Molecular Weight	: 259.18
CAS No.	: 1465-25-4
EC No.	: 215-981-2
HS Code	: 2921 59 90
Shelf Life	: 4 years


**Technical Specification**

Appearance	: White to pink to grey crystals or powder or chunks
Solubility	: 33.3 mg soluble in 1 mL of dilute hydrochloric acid
Sensitivity to diazotised sulphanilamide	: Passes test
Water (K.F)	: $\leq 5.00\%$
Assay (AT, on anhydrous basis)	: min. 90.00%

**GHS Safety Information**

Hazard Statement(s)	: H315-H319-H335
Precautionary Statement(s)	: P261-P305+P351+P338
Signal Word	: Warning
Hazard Pictogram(s)	

**Risk and Safety Information**

R-Phrase(s)	: 36/37/38
S-Phrase(s)	: 26-36
WGK	: 3
RTECS	: KV5330000
Storage Temperature(°C)	: Store below 30°C
Hazard Symbol(s)	

**Transport Information**

Marine Pollutant	: No
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## Product Information

ADR/RID : Not Dangerous Goods  
IMDG : Not Dangerous Goods  
IATA : Not Dangerous Goods

A-516, Swastik Disha Business Park, Via Vadhani Indl. Est., LBS Marg, Mumbai-400 086, India. Phone:+91-022-6147 1919  
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**RM3649 N-Phenylanthranilic acid, A.R.****Product Number Packing**

RM3649	: 100G
RM3649	: 25G


**Product Information**

Product Code	: RM3649
Product Name	: N-Phenylanthranilic acid, A.R.
Synonym	: 2-(Phenylamino)benzoic acid; Diphenylamine-2-carboxylic acid; DpC
Molecular Formula	: $C_{13}H_{11}NO_2$
Molecular Weight	: 213.23
CAS No.	: 91-40-7
EC No.	: 202-066-8
HS Code	: 2922 49 85
Other Information	: For Synthesis
Shelf Life	: 4 years

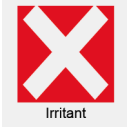
**Technical Specification**

Appearance	: White to yellow to brown powder
Solubility	: 33.3 mg soluble in 1 mL of methanol
FTIR (KBr disc)	: Matches with the standard pattern
Melting range	: 182 - 187°C
Assay (NaOH Titration/HPLC)	: 99.00 - 103.00%

**GHS Safety Information**

Hazard Statement(s)	: H315-H319-H335
Precautionary Statement(s)	: P261-P305+P351+P338
Signal Word	: Warning
Hazard Pictogram(s)	

**Risk and Safety Information**

R-Phrase(s)	: 36/37/38
S-Phrase(s)	: 26-36
WGK	: 3
RTECS	: CB3730000
Storage Temperature(°C)	: Store below 30°C
Hazard Symbol(s)	

**Transport Information**

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods



## Product Information

IMDG : Not Dangerous Goods  
IATA : Not Dangerous Goods

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## Methylene Blue (Loeffler's)

S022

Methylene Blue (Loeffler's) is used as staining solution in metachromatic staining.

### Composition\*\*

#### Ingredients

Methylene blue	0.30 gm
Ethyl alcohol, 95%	30.0 ml
Distilled water	100.0 ml

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

- 1) Prepare a thin smear of *Corynebacterium diphtheriae*.
- 2) Allow it to air dry and fix with gentle heat.
- 3) Flood the smear with Methylene Blue (S022) for 1 minute.
- 4) Wash in the tap water.
- 5) Blot dry, then examine under oil immersion objective.

### Principle And Interpretation

Loefflers Methylene Blue stain is used for the identification of diphtheria bacilli, since it differentiates the deeply staining metachromatic granules from the pale blue-staining cytoplasm .

### Quality Control

#### Appearance

Dark blue coloured solution.

#### Clarity

Clear solution without any particles

#### Microscopic Examination

Metachromatic staining is carried out where Methylene Blue is used as one of the stains and staining characteristic of organisms is observed under microscope by using oil immersion lens.

#### Results

Metachromatic granules : Deep blue  
Cytoplasm : Pale blue

### Storage and Shelf Life

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

Revision : 1 / 2015



#### Disclaimer :

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