

HiMedia Laboratories Private Limited

C-40, Road No.21Y, MIDC, Wagle Industrial Area,
Thane(W) - 400604 , Website : www.himedialabs.com,
Email : info@himedialabs.com

Certificate of Analysis, Quality and Conformity

Material Code : DD006	Material Name : Mannitol	Lot No : 0000612566
Report No.: 40001403132	Date of Release & Report : 2023-10-13	Expiry Date : 2025-09

Appearance

Filter paper discs of 10 mm diameter bearing letters "Mn" in continuous printing style.

Cultural response

The carbohydrate fermentation reactions after an incubation of 18-48 hours at 35-37°C, of various bacteria with Mannitol Differentiation discs were tested using Phenol Red Broth Base (M054).

Organism	Growth	Acid	Gas
Cultural response			
<i>Citrobacter freundii</i> ATCC 8090	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Serratia marcescens</i> ATCC 8100	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Shigella flexneri</i> ATCC 12022	Luxuriant	Positive reaction: yellow colour	Negative reaction

- . ATCC is a registered trade mark of the American Type Culture Collection
- . NCTC and National Collection of Type Culture are registered trade mark of the Health Protection Agency

Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter
- . HiMedia Laboratories Pvt Ltd is Certified for ISO 9001:2015, ISO 13485:2016 , WHO GMP

Storage & Shelf Life

Store between 10-30°C. Use before expiry date on the label.

STATUS OF THE MATERIAL : APPROVED

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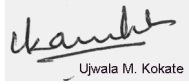
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Shraddha Raval

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Asst./Dy/QC Manager



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Dy/QA Manager

2023-10-13

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Certificate of Analysis, Quality and Conformity

Material Code : DD010	Material Name : Rhamnose	Lot No : 0000632418
Report No.: 40001444691	Date of Release & Report : 2024-02-27	Expiry Date : 2026-01

Appearance

Filter paper discs of 10 mm diameter bearing letters "Rh" in continuous printing style.

Cultural response

The carbohydrate fermentation reactions after an incubation of 18-48 hours at 35-37°C, of various bacteria with Rhamnose Differentiation discs were tested using Phenol Red Broth Base (M054).

Organism	Growth	Acid	Gas
Cultural response			
<i>Citrobacter freundii</i> ATCC 8090	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Serratia marcescens</i> ATCC 8100	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Shigella flexneri</i> ATCC 12022	Luxuriant	Negative reaction: no colour change	Negative reaction

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Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

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- . HiMedia Laboratories Pvt Ltd is Certified for ISO 9001:2015, ISO 13485:2016 and WHO GMP

- . The Quality Assurance Parameters are as per the guidelines specified in CLSI (NCCLS) document M22-A3 wherever applicable.

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Gowri V

**Microbiologist/Sr.Executive
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2024-02-27

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Certificate of Analysis, Quality and Conformity

Material Code : DD014	Material Name : Xylose	Lot No : 0000612567
Report No.: 40001403133	Date of Release & Report : 2023-10-13	Expiry Date : 2025-09

Appearance

Filter paper discs of 10 mm diameter bearing letters "Xy" in continuous printing style.

Cultural response

The carbohydrate fermentation reactions after an incubation of 18-48 hours at 35-37°C, of various bacteria with Xylose Differentiation discs were tested using Phenol Red Broth Base (M054).

Organism	Growth	Acid	Gas
Cultural response			
<i>Citrobacter freundii</i> ATCC 8090	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Serratia marcescens</i> ATCC 8100	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Shigella flexneri</i> ATCC 12022	Luxuriant	Negative reaction: no colour change	Negative reaction

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Control Media :

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- . For Yeast & Mold : Sabouraud Dextrose Agar.

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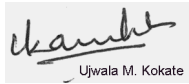
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Certificate of Analysis, Quality and Conformity

Material Code : DD032	Material Name : Spore Strips (25 strips / pack)	Lot No : 000598557
Report No.: 40001374313	Date of Release & Report : 2023-07-17	Expiry Date : 2025-06

Appearance

Filter paper strip impregnated with spores of standard culture of *B.stearothermophilus* ATCC 7953

Number of spores

1000000 spores/strip

Cultural response

Sterility checking of the autoclave was carried out using Spore strip. After autoclaving, strip was inoculated in 100ml of st. Soyabean Casein Digest Medium (M011) and incubated at 55°C upto 7 days. An unexposed spore strip was also inoculated separately in 100ml M011

Organism	Unexposed Spore Strip	Exposed Spore Strip	Positive control	Negative control
Cultural response				
<i>Growth in M011</i>	Luxuriant	No growth	Luxuriant	No growth

- . Positive control and Negative control tubes should be set up with each c
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Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

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Storage & Shelf Life

Store between 15 - 27°C. Use before expiry date on the label.

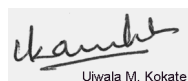
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Certificate of Analysis, Quality and Conformity

Material Code : FD203	Material Name : MKTT Supplement	Lot No : 0000613389
Report No.: 40001404816	Date of Release & Report : 2023-10-19	Expiry Date : 2025-09

Appearance

White, homogeneous powder.

Solubility

Contents of 1 vial soluble in 5 ml of sterile distilled water.

Cultural response

Cultural characteristics observed after 18 - 48 hours at 43°C. when used in Mueller Kauffman Tetrathionate Novobiocin Broth Base (M1496I) and recovered on MacConkey Agar (M082) .

Organism	Recovery
Recovery	
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	Little-none
<i>Proteus hauseri</i> ATCC 13315	Little-none
<i>S. serotype enteritidis</i> ATCC 13076	Excellent
<i>Salmonella enterica serovar Typhimurium</i> ATCC 14028 (WDCM 00031)	Excellent
<i>Salmonella enterica serovar Paratyphi-A</i> ATCC 9150	Excellent
<i>S. serotype paratyphi B</i> ATCC 8759	Excellent
<i>Salmonella enterica serovar Typhi</i> ATCC 6539	Inhibited
<i>Shigella flexneri</i> ATCC 12022 (WDCM 00126)	Inhibited

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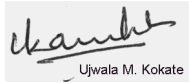
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Gowri V

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2023-10-19

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Certificate of Analysis , Quality and Conformity

Material Code : LA008B	Material Name : Rose fragrance Pearls	Lot No : 0000355627
AR No.: 010000370502	Date of Report : 2018-09-18	Exp. Date : 2023-09

TEST	SPECIFICATIONS	RESULTS
<u>Description</u> 1 Description	Oval shaped, gel-like, Pink coloured capsules having rose fragrance.	Complies
<u>Use</u> 1 Use	Pleasant smelling deodorizers for masking oppressive odours during autoc laving of exposed plates and contaminated material.	Complies

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Sujata Jagtap

Microbiologist/Sr.Executive Microbiologist


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Certificate of Analysis, Quality and Conformity

Material Code : M011F	Material Name : Tryptone Soya Broth Base w/o Polymyxin	Lot No : E000586723
Report No.: 40001351631	Date of Release & Report : 2023-04-27	Expiry Date : 2028-03

Appearance

Cream to yellow homogeneous free flowing powder. Observed : Light yellow

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate.

Reaction

pH of 3.0% w/v aqueous solution at 25°C (after sterilization).

pH

pH Range :7.10-7.50 Observed : 7.46

Cultural Response

Cultural characteristics observed after an incubation at 30-35°C by adding Polymyxin B Selective Supplement(FD003).

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Bacillus cereus</i> ATCC 10876	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	$\geq 10^4$	inhibited

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Control Media :

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- . For Yeast & Mold : Sabouraud Dextrose Agar.

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. Information for BSE/TSE Risk: The material was subjected to pH \leq 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

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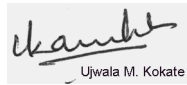
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2023-04-27

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Certificate of Analysis, Quality and Conformity

Material Code : M054	Material Name : Phenol Red Broth Base	Lot No : 0000579826
Report No.: 40001341622	Date of Release & Report : 2023-03-27	Expiry Date : 2028-02

Appearance

Light yellow to pink coloured homogeneous free flowing powder. Observed : Light pink

Colour and Clarity of prepared medium

Red coloured clear solution without any precipitate

Reaction

Reaction of 1.6% w/v aqueous solution at 25°C.

pH

pH Range :7.20-7.60 Observed : 7.46

Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours.

Organism	Inoculum (CFU)	Growth	without carbohydrate, (Acid)	without carbohydrate, (Gas)	with dextrose,(Acid)	with dextrose,(Gas)
Cultural Response						
<i>Citrobacter freundii</i> ATCC 8090	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048 (WDCM 00175)	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883 (WDCM 00097)	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction
<i>Proteus hauseri</i> ATCC 13315	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction
<i>Salmonella enterica</i> serovar Typhi ATCC 6539	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction
<i>Salmonella enterica</i> serovar Typhimurium ATCC 14028 (WDCM 00031)	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction

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Report No.: 40001341622	Date of Release & Report : 2023-03-27	Expiry Date : 2028-02

<i>Serratia marcescens</i> ATCC 8100	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Positive reaction
<i>Shigella flexneri</i> ATCC 12022 (WDCM 00126)	50-100	luxuriant	Negative reaction, no colour change	Negative reaction	Positive reaction, yellow colour	Negative reaction

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. Information for BSE/TSE Risk The material was subjected to pH <= 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

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Material Code : M121I	Material Name : Brilliant Green Bile Broth	Lot No : 000524160
Report No.: 40001215663	Date of Release & Report : 2022-03-11	Expiry Date : 2027-02

Appearance

Cream to pale green homogeneous free flowing powder . Observed : Pale green

Colour and Clarity of prepared medium

Emerald green coloured, clear solution without any precipitate.

Reaction

Reaction of 4.0% w/v aqueous solution at 25°C.

pH

pH Range :7.00-7.40 Observed : 7.35

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18- 48 hours.

Organism	Inoculum (CFU)	Growth	Gas
Cultural Response			
<i>Bacillus cereus</i> ATCC 10876	$\geq 10^4$	inhibited	-
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	50-100	good-luxuriant	positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048 (WDCM 00175)	50-100	good-luxuriant	positive reaction
<i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087)	50-100	none-poor	negative reaction
<i>Staphylococcus aureus</i> ATCC 25923 (WDCM 00034)	$\geq 10^4$	inhibited	-
<i>Enterococcus faecalis</i> ATCC 19433 (WDCM 00009)	50-100	none-poor	negative reaction
<i>Escherichia coli</i> ATCC 8739 (WDCM 00012)	50-100	good-luxuriant	positive reaction
<i>Citrobacter freundii</i> ATCC 43864	50-100	good-luxuriant	positive reaction

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Certificate of Analysis, Quality and Conformity

Material Code : M121I	Material Name : Brilliant Green Bile Broth	Lot No : 000524160
Report No.: 40001215663	Date of Release & Report : 2022-03-11	Expiry Date : 2027-02

. Information for BSE/TSE Risk: The material was subjected to pH \leq 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

STATUS OF THE MATERIAL : APPROVED

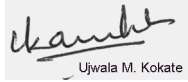
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2022-03-11

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Certificate of Analysis, Quality and Conformity

Material Code : M612I	Material Name : Slanetz and Bartley Medium	Lot No : 0000585799
Report No.: 40001350126	Date of Release & Report : 2023-04-22	Expiry Date : 2028-03

Appearance

Cream to yellow homogeneous free flowing powder. Observed : Cream

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 4.65% w/v aqueous solution at 25°C.

pH

pH Range :7.00-7.40 Observed : 7.30

Cultural Response

Cultural characteristics observed after an incubation at 44-45°C for 44- 48 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Colour of colony
Cultural Response				
<i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087)	50-100	good-luxuriant	>=50%	red or maroon
<i>Enterococcus faecalis</i> ATCC 19433 (WDCM 00009)	50-100	good-luxuriant	>=50%	red or maroon
<i>Enterococcus faecalis</i> DSM 24916 (WDCM 00176)	50-100	good-luxuriant	>=50%	red or maroon
<i>Enterococcus faecium</i> ATCC 6057 (WDCM 00177)	50-100	good-luxuriant	>=50%	red or maroon
<i>Enterococcus faecium</i> NCTC 13169 (WDCM 00178)	50-100	good-luxuriant	>=50%	red or maroon
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	>=10 ⁴	inhibited	0%	-
<i>Escherichia coli</i> ATCC 8739 (WDCM 00012)	>=10 ⁴	inhibited	0%	-
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538	>=10 ⁴	inhibited	0%	-
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923	>=10 ⁴	inhibited	0%	-

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Control Media :

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Certificate of Analysis, Quality and Conformity

Material Code : M612I	Material Name : Slanetz and Bartley Medium	Lot No : 000585799
Report No.: 40001350126	Date of Release & Report : 2023-04-22	Expiry Date : 2028-03

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

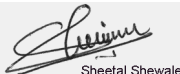
- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter
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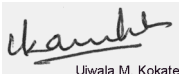
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Certificate of Analysis, Quality and Conformity

Material Code : M636F	Material Name : MYP Agar Base	Lot No : 000580848
Report No.: 40001338368	Date of Release & Report : 2023-03-17	Expiry Date : 2028-02

Appearance

Light yellow to light pink homogeneous free flowing powder. Observed : Light pink

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Basal medium :Red coloured clear to slightly opalescent gel. After Addition of Egg Yolk Emulsion (FD045) : Light orange coloured opaque gel forms in Petri plates

Reaction

Reaction of 4.6% w/v aqueous solution at 25°C.

pH

pH Range :7.00-7.40 Observed : 7.37

Cultural Response

Cultural characteristics observed with added Egg Yolk Emulsion (FD045)and Polymyxin B Sulphate(FD003) after an incubation at 32°C for 18-40 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Colour of colony	Lecithinase activity
Cultural Response					
<i>Bacillus cereus</i> ATCC 10876	50-100	luxuriant	>=50%	red	positive, opaque zone around the colony
<i>Bacillus spizizenii</i> ATCC 6633 (WDCM 00003)	50-100	luxuriant	>=50%	yellow	negative
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	50-100	none-poor	<=10%	-	-
<i>Proteus mirabilis</i> ATCC 25933	50-100	luxuriant	>=50%	red	negative
<i>Pseudomonas aeruginosa</i> ATCC 27853 (WDCM 00025)	50-100	none-poor	<=10%	-	-
<i>Staphylococcus aureus</i> ATCC 25923 (WDCM 00034)	50-100	luxuriant	>=50%	yellow	positive, opaque zone around the colony

- . ATCC is a registered trade mark of the American Type Culture Collection
- . NCTC and National Collection of Type Culture are registered trade mark of the Health Protection Agency

Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

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Certificate of Analysis, Quality and Conformity

Material Code : M636F	Material Name : MYP Agar Base	Lot No : 0000580848
Report No.: 40001338368	Date of Release & Report : 2023-03-17	Expiry Date : 2028-02

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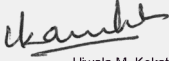
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Certificate of Analysis, Quality and Conformity

Material Code : M906	Material Name : B.C. Motility Test Medium	Lot No : 0000571122
Report No.: 40001316869	Date of Release & Report : 2023-01-11	Expiry Date : 2027-12

Appearance

Cream to yellow homogeneous free flowing powder. Observed : Light yellow

Gelling

Semisolid, comparable with 0.3% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured, clear to very slightly opalescent gel forms in tubes as butts

Reaction

Reaction of 2.3% w/v aqueous solution at 25°C.

pH

pH Range :7.20-7.60 Observed : 7.47

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18- 24 hours.

Organism	Inoculum (CFU)	Growth	Motility
Cultural Response			
<i>Bacillus anthracis ATCC 14578</i>	50-100	good-luxuriant	negative reaction,growth along the stabline
<i>Bacillus cereus ATCC 10876</i>	50-100	good-luxuriant	positive reaction, growth away the stabline
<i>Bacillus cereus var mycoides</i>	50-100	good-luxuriant	negative reaction,growth along the stabline
<i>Bacillus thuringiensis ATCC 10792</i>	50-100	good-luxuriant	positive reaction, growth away from stabline

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. Information for BSE/TSE Risk The material was subjected to pH \leq 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the

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Certificate of Analysis, Quality and Conformity

Material Code : M906	Material Name : B.C. Motility Test Medium	Lot No : 000571122
Report No.: 40001316869	Date of Release & Report : 2023-01-11	Expiry Date : 2027-12

specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

STATUS OF THE MATERIAL : APPROVED

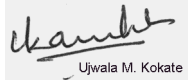
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Certificate of Analysis, Quality and Conformity

Material Code : M1064I	Material Name : Listeria Identification Agar (PALCAM)	Lot No : 0000615343
Report No.: 40001411434	Date of Release & Report : 2023-11-04	Expiry Date : 2028-09

Appearance

Light yellow to pink Homogeneous Free flowing powder. Observed : Pinkish beige

Gelling

Firm, comparable with 1.0% Agar gel.

Colour and Clarity of Prepared Medium

Red Clear to slightly opalescent gel forms in petriplates.

Reaction

Reaction of 6.9% w/v aqueous solution at 25°C.

pH

pH Range :7.00-7.40 Observed : 7.38

Cultural Response

Cultural characteristics observed under microaerophilic condition, with added PALCAM Selective Supplement (FD061), after an incubation at 35-37°C for 48 hours .

Organism	Inoculum (CFU)	Growth	Recovery	Colony characteristics
Cultural Response				
<i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087)	50-100	none - poor	<=20%	grey colonies with a brown-green halo
<i>Listeria monocytogenes</i> ATCC 19111 (WDCM 00020)	50-100	good-luxuriant	>=50%	grey-green with black center and a black halo
<i>Listeria monocytogenes</i> ATCC 19112	50-100	good-luxuriant	>=50%	grey-green with black center and a black halo
<i>Listeria monocytogenes</i> ATCC 19117	50-100	good-luxuriant	>=50%	grey-green with black center and a black halo
<i>Listeria monocytogenes</i> ATCC 19118	50-100	good-luxuriant	>=50%	grey-green with black center and a black halo
<i>Staphylococcus aureus</i> ATCC 25923 (WDCM 00034)	50-100	none - poor	<=20%	yellow colonies with yellow halo
<i>Enterococcus faecalis</i> ATCC 19433 (WDCM 00009)	50-100	none - poor	<=20%	grey colonies with a brown-green halo
<i>Listeria monocytogenes</i> ATCC 13932 (WDCM 00021)	50-100	good-luxuriant	>=50%	grey-green with black center and a black halo
<i>Listeria monocytogenes</i> ATCC 35152	50-100	good-luxuriant	>=50%	grey-green with black center and a black halo

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Material Code : M1064I	Material Name : Listeria Identification Agar (PALCAM)	Lot No : 0000615343
Report No.: 40001411434	Date of Release & Report : 2023-11-04	Expiry Date : 2028-09

<i>Listeria innocua</i> ATCC 33090 (WDCM 00017)	50-100	good-luxuriant	>=50%	grey-green with black center and a black halo
<i>Escherichia coli</i> ATCC 8739 (WDCM 00012)	50-100	none-poor	<=10%	grey-green with black center and a black halo
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	50-100	none-poor	<=20%	yellow colonies with yellow halo

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Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter
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2023-11-04

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Certificate of Analysis, Quality and Conformity

Material Code : M1129I	Material Name : Dichloran glycerol Agar Base	Lot No : 000602214
Report No.: 40001386031	Date of Release & Report : 2023-08-19	Expiry Date : 2027-07

Appearance

Cream to yellow homogeneous free flowing powder. Observed : Light yellow

Gelling

Firm,comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Medium amber coloured, clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 3.16% w/v aqueous solution 22 grams of glycerol after sterilization.

pH

pH Range :5.40-5.80 Observed : 5.74

Cultural Response

Cultural characteristics observed with added 22 grams of glycerol after an incubation at 25°C for upto 6 days.

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
<i>Bacillus spizizenii</i> ATCC 6633 (WDCM 00003)	$\geq 10^4$	inhibited	0%
<i>Candida albicans</i> ATCC 10231 (WDCM 00054)	50-100	good-luxuriant	$\geq 50\%$
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	$\geq 10^4$	inhibited	0%
<i>Mucor racemosus</i> ATCC 42647 (WDCM 00181)	-	good-luxuriant	-
<i>Saccharomyces cerevisiae</i> ATCC 9763 (WDCM 00058)	50-100	good-luxuriant	$\geq 50\%$

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Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter
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.. Information for BSE/TSE Risk: The material was subjected to pH ≤ 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were

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Certificate of Analysis, Quality and Conformity

Material Code : M1129I	Material Name : Dichloran glycerol Agar Base	Lot No : 000602214
Report No.: 40001386031	Date of Release & Report : 2023-08-19	Expiry Date : 2027-07

apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

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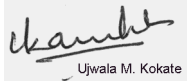
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2023-08-19

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Certificate of Analysis, Quality and Conformity

Material Code : M1491	Material Name : Rappaport Vassiliadis Soya Broth (RVS Broth)	Lot No : 0000594721
Report No.: 40001367890	Date of Release & Report : 2023-06-21	Expiry Date : 2028-05

Appearance

Light yellow to light blue Homogeneous Free flowing powder. Observed : Light blue

Colour and Clarity of prepared medium

Greenish blue clear to slightly opalescent with a slight precipitate.

Reaction

Reaction of 2.77% w/v aqueous solution at 25°C.

pH

pH Range :5.00-5.40 Observed : 5.34

Cultural Response

Cultural response was observed after an incubation at 30-35°C for 18-24 hours Recovery is carried out using Xylose Lysine Deoxycholate Agar (M031) after enrichment.

Organism	Inoculum (CFU)	Growth	Observed Lot value (CFU)	Recovery	Colour of colony	Incubation temperature	Incubation period
Growth promoting							
<i>Salmonella enterica serovar Typhimurium ATCC 14028 (WDCM 00031)</i>	85	luxuriant	85	100%	red with black centers	35°C	18Hours
<i>Salmonella enterica serovar Abony NCTC 6017 (WDCM 00029)</i>	83	luxuriant	85	102%	red with black centers	35°C	18Hours
Inhibitory							
<i>Staphylococcus aureus ATCC 6538 (WDCM 00032)</i>	>=10 ⁴	inhibited	0	0%	-	35°C	72Hours
Additional Microbiological testing							
<i>Escherichia coli ATCC 25922 (WDCM 00013)</i>	87	none-poor	4	4%	yellow	35°C	18Hours
<i>Escherichia coli ATCC 8739 (WDCM 00012)</i>	85	none-poor	7	8%	yellow	35°C	18Hours
<i>Salmonella enterica serovar Enteritidis ATCC 13076 (WDCM 00030)</i>	83	luxuriant	82	99%	red with black centre	35°C	18Hours
<i>Salmonella enterica serovar Paratyphi-B ATCC 8759</i>	87	luxuriant	90	103%	red with black centre	35°C	18Hours
<i>Staphylococcus aureus ATCC 25923 (WDCM 00034)</i>	>=10 ⁴	inhibited	0	0%	-	35°C	72Hours
<i>Enterococcus faecalis ATCC 29212 (WDCM 00087)</i>	>=10 ⁴	inhibited	0	0%	-	35°C	72Hours

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Material Code : M1491	Material Name : Rappaport Vassiliadis Soya Broth (RVS Broth)	Lot No : 0000594721
Report No.: 40001367890	Date of Release & Report : 2023-06-21	Expiry Date : 2028-05

E.coli +S.Typhimurium (mixed culture)							
<i>Escherichia coli</i> ATCC 8739 (WDCM 00012)	85	none-poor	6	7%	yellow	35°C	18Hours
<i>Salmonella enterica</i> serovar <i>Typhimurium</i> ATCC 14028 (WDCM 00031)	85	luxuriant	86	101%	red with black centre	35°C	18Hours

- . ATCC is a registered trade mark of the American Type Culture Collection
- . NCTC and National Collection of Type Culture are registered trade mark of the Health Protection Agency

Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter.
- . HiMedia Laboratories Pvt Ltd is Certified for ISO 9001:2015, ISO 13485:2016 , WHO GMP

STATUS OF THE MATERIAL : APPROVED

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Sheetal Shewale

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Ujwala M. Kokate

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2023-06-21

HiMedia Laboratories Private Limited

C-40, Road No.21Y, MIDC, Wagle Industrial Area,
Thane(W) - 400604 , Website : www.himedialabs.com,
Email : info@himedialabs.com

Certificate of Analysis, Quality and Conformity

Material Code : M1852I	Material Name : Iron Sulphite Agar Modified	Lot No : 0000552583
Report No.: 40001274989	Date of Release & Report : 2022-09-12	Expiry Date : 2027-08

Appearance

Light yellow to brownish yellow homogeneous free flowing powder. Observed : Light yellow

Gelling

Firm,comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Yellow coloured, slightly opalescent gel forms in Petri plates

Reaction

Reaction of 2.6% w/v aqueous solution at 25°C.

pH

pH Range :7.40-7.80 Observed : 7.79

Cultural Response

Cultural characteristics observed under anaerobic conditions, after an incubation at 36-38°C for 24-48 hours.(* incubated at 49-51°C for 24-48 hours)

Organism	Inoculum	Growth	Recovery	Colour of colony
Cultural Response				
<i>Clostridium butyricum</i> ATCC 13732	50-100	luxuriant	>=50%	black
<i>Clostridium sporogenes</i> NCIMB 532 (WDCM 00008)	50-100	luxuriant	>=50%	black
* <i>Desulfotomaculum nigrificans</i> ATCC 19998	50-100	luxuriant	>=50%	black
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	50-100	good	40-50%	no blackening
<i>Escherichia coli</i> ATCC 8739 (WDCM 00012)	50-100	luxuriant	>=50%	no blackning
<i>Clostridium perfringens</i> ATCC 13124 (WDCM 00007)	50-100	luxuriant	>=50%	black
<i>Clostridium perfringens</i> ATCC 12916	50-100	luxuriant	>=50%	black

- . ATCC is a registered trade mark of the American Type Culture Collection
- . NCTC and National Collection of Type Culture are registered trade mark of the Health Protection Agency

Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

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- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter
- . HiMedia Laboratories Pvt Ltd is Certified for ISO 9001:2015, ISO 13485:2016 , WHO GMP

. Information for BSE/TSE Risk: The material was subjected to pH \leq 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

STATUS OF THE MATERIAL : APPROVED

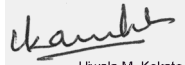
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Prachi Ratnakar

**Microbiologist/Sr.Executive
Microbiologist**



Ujwala M. Kokate

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Dr. Santosh Kaul

Dy/QA Manager

2022-09-12

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Thane(W) - 400604 , Website : www.himedialabs.com,
Email : info@himedialabs.com

Certificate of Analysis, Quality and Conformity

Material Code : M1881	Material Name : Dichloran Rose Bengal Chloramphenicol Agar (DRBC Agar)	Lot No : 000601957
Report No.: 40001383005	Date of Release & Report : 2023-08-08	Expiry Date : 2027-07

Appearance

Light yellow to pink homogeneous free flowing powder. Observed : Light pink

Gelling

Firm,comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Pink coloured, clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 3.16% w/v aqueous solution at 25°C.

pH

pH Range :5.40-5.80 Observed : 5.74

Cultural Response

Cultural characteristics observed after an incubation at 25-30°C for upto 6 days.

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
<i>Bacillus spizizenii</i> ATCC 6633 (WDCM 00003)	$\geq 10^4$	inhibited	0%
<i>Candida albicans</i> ATCC 10231 (WDCM 00054)	50-100	good-luxuriant	$\geq 50\%$
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	$\geq 10^4$	inhibited	0%
<i>Mucor racemosus</i> ATCC 42647 (WDCM 00181)	-	good-luxuriant	-
<i>Saccharomyces cerevisiae</i> ATCC 9763 (WDCM 00058)	50-100	good-luxuriant	$\geq 50\%$

- . ATCC is a registered trade mark of the American Type Culture Collection
- . NCTC and National Collection of Type Culture are registered trade mark of the Health Protection Agency

Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter
- . HiMedia Laboratories Pvt Ltd is Certified for ISO 9001:2015, ISO 13485:2016 , WHO GMP

. Information for BSE/TSE Risk The material was subjected to pH ≤ 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were

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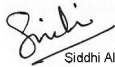
Material Code : M1881	Material Name : Dichloran Rose Bengal Chloramphenicol Agar (DRBC Agar)	Lot No : 000601957
Report No.: 40001383005	Date of Release & Report : 2023-08-08	Expiry Date : 2027-07

apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

STATUS OF THE MATERIAL : APPROVED

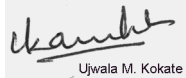
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Siddhi Alegaonkar

**Microbiologist/Sr.Executive
Microbiologist**



Ujwala M. Kokate

Asst./Dy/QC Manager



Dr. Santosh Kaul

Dy/QA Manager

2023-08-08

CERTIFICATE OF ANALYSIS

SF97B

Gridded Cellulose Nitrate Membrane, Sterile

Lot Number : **0000621102**

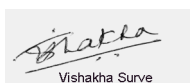
QC Test Date : 04.01.2024

Expiry Date : 31.01.2027

Store at : 15°C-30°C

TEST	SPECIFICATIONS	RESULTS
Description	Gridded Cellulose Nitrate Membrane, Sterile	Complies
Pore size	0.22 microns	Complies
Membrane diameter	47 mm	Complies
Sterility	Sterile	Complies

Status of the material : **APPROVED**



Vishakha Surve

Department, Quality Control
Cell Biology



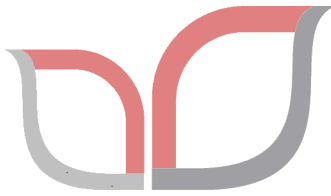
Neha Saini

Department, Quality Control
Cell Biology

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HiMedia Laboratories Pvt. Ltd.

CERTIFICATE OF ANALYSIS

SF97D

Gridded Cellulose

Nitrate Membrane, Sterile

Lot Number : **0000468262**

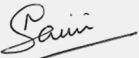
QC Test Date : 11.06.2021

Expiry Date : 30.06.2024


Store at : 15° - 30°C

TEST	SPECIFICATIONS	RESULTS
Description	Gridded white Cellulose Nitrate diameter	Complies
Pore size	0.45 µm	Complies
Membrane diameter	47mm	Complies
Sterility	Passes	Complies

Status of the material : **APPROVED**


Neha Saini

Department, Quality Control
Animal Cell Culture


Reena Pius

Department, Quality Assurance
Animal Cell Culture

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Mannitol Mn

DD006

Carbohydrate Differentiation Discs are used to differentiate bacteria on the basis of carbohydrate fermentation abilities.

Directions

A Sugar free medium base is prepared as desired, dispensed and sterilized. Following media are recommended for this test.

Liquid Media

- M885 Andrade Peptone Water
- MV885 Andrade HiVeg Peptone Water
- M909 Andrade Peptone Water with Meat Extract
- MV909 Andrade Peptone Water w/ HiVeg Extract No. 1
- M054 Phenol Red Broth Base
- MV054 Phenol Red HiVeg Broth Base
- M279 Phenol Red Broth Base w/ Meat Extract
- MV279 Phenol Red Broth Base w/ HiVeg Extract No. 1
- M284 Purple Broth Base
- MV284 Purple HiVeg Broth Base
- M676 Yeast Fermentation Broth
- MV676 Yeast Fermentation HiVeg Broth Base

Semisolid Media

- M159 Cystine Tryptone Agar
- MV159 Cystine Tryptone Agar, HiVeg
- M395 OF Basal Medium
- MV395 OF Basal HiVeg Medium
- M319 Tryptone Agar Base
- MV319 Tryptone Agar Base, HiVeg

Solid Media

- M053 Phenol Red Agar Base
- MV053 Phenol Red HiVeg Agar Base
- M098 Purple Agar Base
- MV098 Purple HiVeg Agar Base

Any medium- liquid, semisolid or solid can be used as per choice. Liquid and semisolid media are dispensed in 5 ml amounts in test tubes and sterilized. On cooling to 45 - 50°C a single Carbohydrate disc is added to each tube aseptically and inoculated with the test organisms. In semisolid medium the disc is pushed in the medium along with the inoculum just below the surface of the medium, so that the medium at the bottom can serve as control while fermentation can be detected at the surface level. Using solid media it is possible to detect fermentation of number of sugars on the same plate. Sterile plates containing the agar medium of choice are surface seeded with test organism(s) and required Carbohydrate discs are placed and pressed gently on the surface of the plate at sufficient distance (2cm) from each other. Incubation is carried out at $36 \pm 1.0^\circ\text{C}$ for 18-48 hours

and results are recorded at 18 - 24 hours and again at 48 hours. The results should be frequently observed since reversal of fermentation reaction can take place. In case of liquid medium gas produced during fermentation is collected in the inverted Durham's tube while acid produced changes colour of the medium. In semisolid media gas produced is trapped and seen as bubbles. On agar plates fermentation is visualised by change in colour around the disc.

Principle And Interpretation

Ability of an organism to ferment a specific carbohydrate added in the basal medium, results in the production of acid or acid and gas. This ability has been used to characterize a specific species of bacteria which helps in differentiation of species as well (2, 3). When carbohydrate impregnated disc is added to a culture medium the carbohydrate diffuses through the medium. When a carbohydrate is fermented by a microorganism, the acid (or acid and gas) produced lowers the pH of the medium and the indicator in the basal medium thus changes colour (e.g. phenol red changes from red to orange to yellow).

Bacteria capable of fermentation grow in Andrade Peptone Water (M885) / Andrade HiVeg Peptone Water (MV885) and produce acid due to fermentation of the added carbohydrate and changes the colour of the indicator from light straw coloured to pink (1).

Quality Control

Appearance

Filter paper discs of 10 mm diameter bearing letters "Mn" in continuous printing style.

Cultural response

The carbohydrate fermentation reactions after an incubation of 18-48 hours at 35-37°C, of various bacteria with Mannitol Differentiation discs were tested using Phenol Red Broth Base (M054).

Cultural Response

Organism	Growth	Acid	Gas
Cultural Response			
Cultural response			
<i>Citrobacter freundii</i> ATCC 8090	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Serratia marcescens</i> ATCC 8100	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Shigella flexneri</i> ATCC 12022	Luxuriant	Positive reaction: yellow colour	Negative reaction

Storage and Shelf Life

Store between 10-30°C. Use before expiry date on the label.

Reference

1. Maxted W. R., 1953, J. Clin. Path., 6:234.
2. Eaton A.D, Clesceri L.S. Greenberg. A.W, 2005, Standard Methods for the Examination of Water and wastewater, 21st edn, APHA. Washington. DC.
3. Mackie and McCartney, 1996, Practical Medical Microbiology, 14th ed., Vol. 2, Collee, Duguid, Fraser and Marmion (Eds.), Churchill Livingstone, Edinburgh.

Revision : 1 / 2011

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Rhamnose Rh

DD010

Carbohydrate Differentiation Discs are used to differentiate bacteria on the basis of carbohydrate fermentation abilities.

Directions

A Sugar free medium base is prepared as desired, dispensed and sterilized. Following media are recommended for this test.

Liquid Media

- M885 Andrade Peptone Water
- MV885 Andrade HiVeg Peptone Water
- M909 Andrade Peptone Water with Meat Extract
- MV909 Andrade Peptone Water w/ HiVeg Extract No. 1
- M054 Phenol Red Broth Base
- MV054 Phenol Red HiVeg Broth Base
- M279 Phenol Red Broth Base w/ Meat Extract
- MV279 Phenol Red Broth Base w/ HiVeg Extract No. 1
- M284 Purple Broth Base
- MV284 Purple HiVeg Broth Base
- M676 Yeast Fermentation Broth
- MV676 Yeast Fermentation HiVeg Broth Base

Semisolid Media

- M159 Cystine Tryptone Agar
- MV159 Cystine Tryptone Agar, HiVeg
- M395 OF Basal Medium
- MV395 OF Basal HiVeg Medium
- M319 Tryptone Agar Base
- MV319 Tryptone Agar Base, HiVeg

Solid Media

- M053 Phenol Red Agar Base
- MV053 Phenol Red HiVeg Agar Base
- M098 Purple Agar Base
- MV098 Purple HiVeg Agar Base

Any medium- liquid, semisolid or solid can be used as per choice. Liquid and semisolid media are dispensed in 5 ml amounts in test tubes and sterilized. On cooling to 45 - 50°C a single Carbohydrate disc is added to each tube aseptically and inoculated with the test organisms. In semisolid medium the disc is pushed in the medium along with the inoculum just below the surface of the medium, so that the medium at the bottom can serve as control while fermentation can be detected at the surface level. Using solid media it is possible to detect fermentation of number of sugars on the same plate. Sterile plates containing the agar medium of choice are surface seeded with test organism(s) and required Carbohydrate discs are placed and pressed gently on the surface of the plate at sufficient distance (2cm) from each other. Incubation is carried out at $36 \pm 1.0^\circ\text{C}$ for 18-48 hours

and results are recorded at 18 - 24 hours and again at 48 hours. The results should be frequently observed since reversal of fermentation reaction can take place. In case of liquid medium gas produced during fermentation is collected in the inverted Durham's tube while acid produced changes colour of the medium. In semisolid media gas produced is trapped and seen as bubbles. On agar plates fermentation is visualized by change in colour around the disc.

Principle And Interpretation

Ability of an organism to ferment a specific carbohydrate added in the basal medium, results in the production of acid or acid and gas. This ability has been used to characterize a specific species of bacteria which helps in differentiation of species as well (2,3). When carbohydrate impregnated disc is added to a culture medium the carbohydrate diffuses through the medium. When a carbohydrate is fermented by a microorganism, the acid (or acid and gas) produced lowers the pH of the medium and the indicator in the basal medium thus changes colour (e.g. phenol red changes from red to orange to yellow).

Bacteria capable of fermentation grow in Andrade Peptone and produce acid due to fermentation of the added carbohydrate and change the colour of the indicator from light straw colored to pink(1).

Quality Control

Appearance

Filter paper discs of 10 mm diameter bearing letters "Rh" in continuous printing style.

Cultural response

The carbohydrate fermentation reactions after an incubation of 18-48 hours at 35-37°C, of various bacteria with Rhamnose Differentiation discs were tested using Phenol Red Broth Base (M054).

Cultural Response

Organism	Growth	Acid	Gas
<i>Citrobacter freundii</i> ATCC 8090	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Serratia marcescens</i> ATCC 8100	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Shigella flexneri</i> ATCC 12022	Luxuriant	Negative reaction: no colour change	Negative reaction

Storage and Shelf Life

Store between 10-30°C. Use before expiry date on the label.

Reference

1. Maxted W. R., 1953, J. Clin. Path., 6:234.

2. Eaton A.D, Clesceri L.S. Greenberg. A.W, 2005, Standard Methods for the Examination of Water and wastewater, 21st edn, APHA. Washington. DC.
3. Mackie and McCartney, 1996, Practical Medical Microbiology, 14th ed., Vol. 2, Collee, Duguid, Fraser and Marmion (Eds.), Churchill Livingstone, Edinburgh.

Revision : 1 / 2011

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Xylose

DD014

Carbohydrate Differentiation Discs are used to differentiate bacteria on the basis of carbohydrate fermentation abilities.

Directions

A Sugar free medium base is prepared as desired, dispensed and sterilized. Following media are recommended for this test.

Liquid Media

- M885 Andrade Peptone Water
- MV885 Andrade HiVeg Peptone Water
- M909 Andrade Peptone Water with Meat Extract
- MV909 Andrade Peptone Water w/ HiVeg Extract No. 1
- M054 Phenol Red Broth Base
- MV054 Phenol Red HiVeg Broth Base
- M279 Phenol Red Broth Base w/ Meat Extract
- MV279 Phenol Red Broth Base w/ HiVeg Extract No. 1
- M284 Purple Broth Base
- MV284 Purple HiVeg Broth Base
- M676 Yeast Fermentation Broth
- MV676 Yeast Fermentation HiVeg Broth Base

Semisolid Media

- M159 Cystine Tryptone Agar
- MV159 Cystine Tryptone Agar, HiVeg
- M395 OF Basal Medium
- MV395 OF Basal HiVeg Medium
- M319 Tryptone Agar Base
- MV319 Tryptone Agar Base, HiVeg

Solid Media

- M053 Phenol Red Agar Base
- MV053 Phenol Red HiVeg Agar Base
- M098 Purple Agar Base
- MV098 Purple HiVeg Agar Base

Any medium- liquid, semisolid or solid can be used as per choice. Liquid and semisolid media are dispensed in 5 ml amounts in test tubes and sterilized. On cooling to 45 - 50°C a single Carbohydrate disc is added to each tube aseptically and inoculated with the test organisms. In semisolid medium the disc is pushed in the medium along with the inoculum just below the surface of the medium, so that the medium at the bottom can serve as control while fermentation can be detected at the surface level. Using solid media it is possible to detect fermentation of number of sugars on the same plate. Sterile plates containing the agar medium of choice are surface seeded with test organism(s) and required Carbohydrate discs are placed and pressed gently on the surface of the plate at sufficient distance (2cm) from each other. Incubation is carried out at $36 \pm 1.0^\circ\text{C}$ for 18-48 hours

and results are recorded at 18 - 24 hours and again at 48 hours. The results should be frequently observed since reversal of fermentation reaction can take place. In case of liquid medium gas produced during fermentation is collected in the inverted Durham's tube while acid produced changes colour of the medium. In semisolid media gas produced is trapped and seen as bubbles. On agar plates fermentation is visualized by change in colour around the disc.

Principle And Interpretation

Ability of an organism to ferment a specific carbohydrate added in the basal medium, results in the production of acid or acid and gas. This ability has been used to characterize a specific species of bacteria which helps in differentiation of species as well (2,3). When carbohydrate impregnated disc is added to a culture medium the carbohydrate diffuses through the medium. When a carbohydrate is fermented by a microorganism, the acid (or acid and gas) produced lowers the pH of the medium and the indicator in the basal medium thus changes colour (e.g. phenol red changes from red to orange to yellow).

Bacteria capable of fermentation grow in Andrade Peptone and produce acid due to fermentation of the added carbohydrate and change the colour of the indicator from light straw colored to pink(1).

Quality Control

Appearance

Filter paper discs of 10 mm diameter bearing letters "Xy" in continuous printing style.

Cultural response

The carbohydrate fermentation reactions after an incubation of 18-48 hours at 35-37°C, of various bacteria with Xylose Differentiation discs were tested using Phenol Red Broth Base (M054).

Organism	Growth	Acid	Gas
<i>Citrobacter freundii</i> ATCC 8090	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Serratia marcescens</i> ATCC 8100	Luxuriant	Negative reaction: no colour change	Negative reaction
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Positive reaction: yellow colour	Negative reaction
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Positive reaction: yellow colour	Positive reaction
<i>Shigella flexneri</i> ATCC 12022	Luxuriant	Negative reaction: no colour change	Negative reaction

Storage and Shelf Life

Store between 10-30°C. Use before expiry date on the label.

Reference

1. Moxley W. R., 1953, J. Clin. Path., 6:234.

2. Eaton A.D, Clesceri L.S. Greenberg. A.W, 2005, Standard Methods for the Examination of Water and wastewater, 21st edn, APHA. Washington. DC.
3. Mackie and McCartney, 1996, Practical Medical Microbiology, 14th ed., Vol. 2, Collee, Duguid, Fraser and Marmion (Eds.), Churchill Livingstone, Edinburgh.

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Oxidase Discs

DD018

Oxidase Discs are used for detection of oxidase production by microorganisms like *Neisseria*, *Alcaligenes*, *Aeromonas*, *Vibrio*'s, *Campylobacter* and *Pseudomonas*, which give positive reactions and for excluding *Enterobacteriaceae*, which give negative reactions.

Directions

Oxidase reaction is carried out by touching and spreading a well isolated colony on the oxidase disc. The reaction is observed within 5-10 seconds at 25-30°C. A change later than 10 seconds or no change at all is considered negative reaction.

Precautions

1. „Do not use stainless steel or nichrome inoculating wires, as false positive reaction may result from surface oxidation products formed during flame sterilization.
2. „Growth from media containing dyes is not suitable for testing.
3. „Timing is critical (5-10 sec) for interpretation of results.
4. „Perform oxidase test on all gram-negative bacilli.
5. „Cytochrome oxidase production may be inhibited by acid production. False negative reactions may be exhibited by *Vibrio*, *Aeromonas* and *Plesiomonas* species when grown on a medium containing fermentable carbohydrate e.g. MacConkey Agar (M081). Colonies taken from media containing nitrate may give unreliable results. The loss of activity of the oxidase reagent is caused by auto-oxidation which may be avoided by adding 0.1% ascorbic acid (3).

Principle And Interpretation

Certain bacteria possess either cytochrome oxidase or indophenol oxidase (an iron-containing haemoprotein), which catalyzes the transport of electrons from donor compounds (NADH) to electron acceptors (usually oxygen). In the oxidase test, a colourless dye such as N, N-dimethyl-p-phenylenediamine serves as an artificial electron acceptor for the enzyme oxidase. The dye is oxidized to form indophenol blue, a coloured compound. The test is useful in the initial characterization of aerobic gram-negative bacteria of the genera *Aeromonas*, *Plesiomonas*, *Pseudomonas*, *Campylobacter* and *Pasteurella*.

Oxidase discs are sterile filter paper discs impregnated with N, N-dimethyl-p-phenylenediamine oxalate, ascorbic acid and a-naphthol. These discs overcome the necessity of daily preparation of fresh reagent. Gordon and McLeod (1) introduced oxidase test for identifying gonococci based upon the ability of certain bacteria to produce indophenol blue from the oxidation of dimethyl-p-phenylenediamine and a-naphthol. Gaby and Hadley (2) introduced a more sensitive method by using N, N-dimethyl-p-phenylenediamine oxalate where all staphylococci were oxidase negative. In a positive reaction the enzyme cytochrome oxidase combines with N,N-dimethyl-p-phenylenediamine oxalate and a-naphthol to form the dye, indophenol blue.

Quality Control

Appearance

Filter paper discs of 10 mm diameter

Cultural response

Typical oxidase reaction given by 18-48 hour culture observed within 5-10 seconds at 25-30°C.

Organism	Reaction Observed
<i>Pseudomonas aeruginosa</i> ATCC 27853	positive : deep purplish blue colouration of disc

<i>Neisseria gonorrhoeae</i> ATCC 19424	positive : deep purplish blue colouration of disc
<i>Escherichia coli</i> ATCC 25922	negative : purplish blue colouration after 10 sec/ no colour change
<i>Staphylococcus aureus</i> ATCC 25923	negative : no colour change

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

Reference

- 1.Gordon J. and Mcleod J.W., 1928, J. Path. Bact., 31:185
- 2.Gaby W.L and Hadley C., 1957. J. Bact., 74:356
- 3.Steel. K.J. 1962. J. Appl. Bact. 25:445

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Spore Strips (Steam Sterilization Monitor Strips)

DD032

Steam Sterilization Monitor Strips are used for evaluating sterilization process. These indicators which are specified by the U.S. military specification MIL-S- 36586 are GMP requirements of U.S. FDA.

Directions

Place indicators in the areas of the pack or load least accessible to steam. Places such as the geometrical center, and the upper and lower regions of both front and rear of the load to be sterilized are considered suitable areas for placement of these indicators. A standard procedure should be established for the routine evaluation of each sterilizer. On completion of the sterilization cycle, remove the indicators from the test loads and deliver them to the laboratory for testing. All sterility tests should be performed in a clean dust free transfer area, preferably under positive air pressure, using rigid aseptic technique throughout the test procedure.

Using sterile scissors, cut open one end of the envelope. Thereafter remove the indicator with sterile tweezers and aseptically transfer it to a tube of sterile Soyabean Casein Digest Medium w/ Yeast Extract and Ferric pyrophosphate (M207) or Soyabean Casein Digest Medium (M011). Incubate the tubes for seven days at 55 - 60°C. Observe the tubes daily. If turbidity develops, failure of the sterilization process is indicated.

Precautions

The spore strips or broth cultures of *Bacillus stearothermophilus* must be autoclaved at 121°C for at least 30 minutes prior to discarding.

Each spore strip is individually packaged in a steam-permeable envelope.

Principle And Interpretation

Bacillus stearothermophilus is a thermophilic bacteria which can grow at 65°C and above. The spores are highly heat resistant and are used to monitor autoclave performance (1).

Sterilisation is the freeing of an article from all living organisms including viable spores(1). Sterilization quality control can only be achieved through the use of calibrated biological indicators (endospores). These indicators consist of *Bacillus stearothermophilus* spores impregnated on chromatography paper strips, individually placed into envelopes. Number of spores present per strip : 10^6 . These organisms are difficult to destroy because they are more resistant to heat than other vegetative bacteria and viruses. Therefore, if they are destroyed during sterilization, it is assumed that all other life forms are also destroyed. This test is considered the most sensitive check of the autoclaves efficiency.

Precautions :

The spore strips or broth cultures of *Bacillus stearothermophilus* must be autoclaved at 121°C for at least 30 minutes prior to discarding.

Each spore strip is individually packaged in a steam-permeable envelope.

Quality Control

Appearance

Filter paper strip impregnated with spores of standard culture of *B. stearothermophilus*

Number of spores

1000000 spores/strip

Cultural response

Sterility checking of the autoclave was carried out using Spore strip. After autoclaving, strip was inoculated in 100ml of st. Soyabean Casein Digest Medium(M011) and incubated at 55°C upto 7 days. An unexposed spore strip was also inoculated separately in 100ml M011

Growth	Unexposed Spore Strip	Exposed Spore Strip	Positive control	Negative control
<i>Growth in M011</i>	Luxuriant	No growth	Luxuriant	No growth

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

Reference

1.Mackie and McCartney, 1996, Practical Medical Microbiology, 14th ed., Vol. 2, Collee J. G., Fraser A. G., Marmion B, P., Simmons A (Eds.), Churchill Livingstone, Edinburgh.

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PolyB Selective Supplement

FD003

An antibiotic supplement recommended for the selective isolation of various microorganisms.

Composition

Per vial sufficient for 500/ 1000 ml medium

*Ingredients

Polymyxin B sulphate

Concentration

50000Unit

Directions:

Rehydrate the contents of one vial aseptically with 2 ml sterile distilled water. Mix well and aseptically add it to 475 ml of sterile, molten Bacillus Cereus Agar Base [M833](#) /Bacillus Cereus HiVeg™ Agar Base [MV833](#) /Bacillus Cereus HiCynth™ Agar Base [MCD833](#) or to 450 ml of KG Agar Base [M658](#) /KG HiVeg™ Agar Base [MV658](#) /MYP Agar Base [M636](#) / [M636S](#) /MYP HiVeg™ Agar Base [MV636](#)/ MYP Agar Base, Granulated (Phenol Red Egg Yolk Polymyxin Agar Base, Granulated) [GM636](#)/MYP HiCynth™ Agar Base (Phenol Red Egg Yolk Polymyxin HiCynth™ Agar Base) [MCD636](#) / MYP Agar Base [M636F](#). Modified MYP Agar Base [M1139](#) /Modified MYP HiVeg™ Agar Base [MV1139](#) /Bacillus cereus Selective Agar Base (MYP) ISO 7932 [M1139I](#) along with 25 ml/50 ml Egg Yolk Emulsion [FD045](#) to make a total volume of 500 ml or to 500 ml of SDS Agar [M1155](#) /SDS HiVeg™ Agar [MV1155](#) /Salt Polymyxin Broth Base [M821](#)/[M821I](#)/Salt Polymyxin HiVeg™ Broth Base [MV821](#)/HiCrome™ Staph Agar Base, Modified [M1837](#)/ Soyabean Casein Digest Medium Base [M011F](#). Mix well and pour into sterile petri plates / tubes.

Type of specimen

Clinical- Faeces, abscess, wound samples etc; Food samples

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2). For food samples, follow appropriate techniques for sample collection and processing as per guidelines (3). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning & Precautions

In Vitro diagnostic use. For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (1,2).

Reference

1. Isenberg (Ed.),2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington. D.C.
2. 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.
3. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

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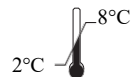
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Technical Data

Cetrinix Selective Supplement

FD029

An antibiotic supplement recommended for the selective isolation of *Pseudomonas* species.

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
Cetrimide	100mg
Nalidixic acid	7.500mg

Directions:

Rehydrate the contents of 1 vial aseptically with 2 ml of sterile distilled water. Mix well and aseptically add it to 500 ml of sterile, molten, cooled (45-50°C) *Pseudomonas* Agar Base [M085](#) / *Pseudomonas* HiVeg™ Agar Base [MV085](#).

Pseudomonas Agar Base, Granulated [GM085](#). Mix well and pour into sterile petri plates.

Type of specimen

Clinical samples - pus, urine, body fluids, etc; Water samples.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2).

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

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

Warning & Precautions

In Vitro diagnostic use. For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (1,2).

Reference

1. Isenberg (Ed.),2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington. D.C.
2. 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.
3. Baird R.B., Eaton A.D., and Rice E.W., (Eds.), 2015, Standard Methods for the Examination of Water and Wastewater, 23rd ed., APHA, Washington, D.C.

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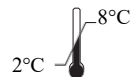
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Egg Yolk Emulsion, 50%

FD045F

Sterile stabilized emulsion of egg yolk recommended for use in various culture media in accordance with FDA BAM 1998.

Composition

(100 ml per vial)

Ingredients	Concentration
Egg yolk	50ml
Sterile saline	50ml

Directions:

Warm up the refrigerated egg yolk emulsion to room temperature. Shake well to attain uniform emulsion. (Since on refrigeration emulsion has a tendency to form layers or small lumps). Aseptically Add 80 ml emulsion in 920 ml of sterile, molten, cooled (45-50°C) Anaerobic Egg Agar Base [M902F](#), S.F.P. Agar Base [M1005F](#), LV-Agar Base, Modified [M1872](#) OR

Aseptically add 50 ml emulsion in 950 ml of sterile, molten, cooled (45-50°C) into MYP Agar [M636F](#).

Type of specimen

Food samples

Specimen Collection and Handling

For food samples follow appropriate techniques for handling specimens as per established guidelines (1). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning & Precautions

For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (2,3).

Reference

1. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, American Public Health Association, Washington, D.C.
2. Isenberg (Ed.), 2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington. D.C.
3. 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.

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Egg Yolk Tel Emulsion (100 ml per vial)

FD046

Sterile stabilized tellurite emulsion of egg yolk recommended for identification of *Staphylococcus* species.

Composition

Ingredients	Concentration
Egg yolk	30ml
Sterile saline	64ml
Sterile 3.5% potassium tellurite solution	6ml

Directions:

Warm up the refrigerated Egg Yolk Tel Emulsion to 40-45°C. Shake well to attain uniform emulsion (since on refrigeration emulsion has a tendency to form layers or small lumps). Aseptically add 50 ml in 950 ml of sterile, molten, cooled (45-50°C) Baird Parker Agar Base [M043](#) /[M043S](#)/Baird Parker Agar Base, Granulated [GM043](#) /Baird Parker HiCynth™ Agar Base [MCD043](#) /Baird Parker HiVeg™ Agar Base [MV043](#)/ Baird Parker Agar Base w/Sulpha [M1140](#)/HiCrome™ Aureus Agar Base [M1468](#). Aseptically add 100 ml in 900 ml of sterile, molten, cooled (45-50°C) Clostridium Perfringens Agar Base [M2070](#). Mix well and pour into sterile petri plates.

Type of specimen

Clinical samples - Skin scrapping, wounds, faeces, etc. ; Food samples

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2).

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

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

Warning & Precautions

In Vitro diagnostic use. For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (1,2).

Reference

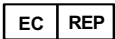
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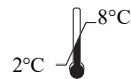
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U40 Supplement (5 ml per vial)

FD048

Filter sterilized urea solution recommended for detection of urease activity.

Composition

Per vial sufficient for 100 ml medium

Ingredients	Concentration
Urea	2g
Distilled water	5ml
Final pH (at 25°C)	8.0±0.2

Directions:

Warm up the refrigerated Urea Solution to room temperature and aseptically add 5 ml in 95 ml sterile, molten, cooled (45-50°C) Urea Broth Base [M111](#) / Urea Agar Base (Christensen) [M112](#) / [M112S](#) / [M112I](#) / Urea HiVeg™ Agar Base (Christensen) [MV112](#) / MIU Medium Base [M1076](#) / Hemmes Medium Base [M775](#) or 25 ml in 975 ml Kohn Two Tube Medium No. 1 Base [M142](#) / Kohn Two Tube HiVeg™ Medium No.1 Base [MV142](#) or to Yersinia Identification Broth Base [M1221](#) as desired. Mix well and dispense in sterile tubes.

Type of specimen

Isolated microorganism from clinical, food and water samples.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2). For food samples, follow appropriate techniques for sample collection and processing as per guidelines (3). For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards(4). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning & Precautions

In Vitro diagnostic use. For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (1,2).

Reference

1. Isenberg (Ed.),2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington. D.C.
2. 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.
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4. Baird R.B., Eaton A.D., and Rice E.W., (Eds.), 2015, Standard Methods for the Examination of Water and Wastewater, 23rd ed., APHA, Washington, D.C.

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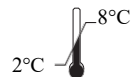
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Technical Data

PALCAM Selective Supplement

FD061

An antimicrobial supplement recommended for the selective isolation and identification of *Listeria monocytogenes*.

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
Polymyxin B sulphate	5000IU
Ceftazidime	10mg
Acriflavine hydrochloride	2.500mg

Directions:

Rehydrate the contents of one vial aseptically with 5 ml sterile distilled water and aseptically add to 500 ml sterile, molten, cooled (45-50°C) Listeria Identification Agar Base (PALCAM) [M1064](#) / Listeria Identification Agar Base (PALCAM), Granulated [GM1064](#) / Listeria Identification HiVeg™ Agar Base (PALCAM) [MV1064](#), Listeria Identification Broth Base (PALCAM) [M1090](#) / Listeria Identification HiVeg™ Broth Base (PALCAM) [MV1090](#) / Listeria Identification Broth Base (PALCAM), Granulated [GM1090](#). Mix well and dispense as desired.

Type of specimen

Clinical samples - Stool, urine, etc; Food samples

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2).

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

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

Warning & Precautions

In Vitro diagnostic use. For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (1,2).

Reference

1. Isenberg (Ed.),2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington. D.C.
2. 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.
3. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

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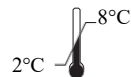
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*In vitro diagnostic
medical device*



CE Marking



Storage temperature



Do not use if
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MKTT Supplement

FD203

A selective supplement for enrichment and isolation of *Salmonella* species.

Composition

Per vial sufficient for 1000 ml medium

*Ingredients	Concentration
Novobiocin	40mg

Directions:

Rehydrate contents of 1 vial aseptically with 5 ml of sterile distilled water and aseptically add to sterile, cooled (45-50°C) Mueller Kauffman Tetrathionate Novobiocin Broth Base [M1496I](#)/ Mueller Kauffman Tetrathionate Novobiocin Broth Base, Granulated [GM1496I](#)/ Mueller Kauffman Tetrathionate Novobiocin HiCynth™ Broth Base [MCD1496I](#). Mix well and dispense as desired.

Type of specimen

Food samples including milk and milk products, in animal feed, in animal faeces, and in environmental samples from the primary production stage.

Specimen Collection and Handling

For food samples follow appropriate techniques for handling specimens as per established guidelines (1). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning & Precautions

For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (2,3).

Reference

1. Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Detection of Salmonella spp. ISO 6579-1:2017
2. Isenberg (Ed.),2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington, D.C.
3. 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.

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PP Selective Supplement

FD264

An antimicrobial supplement recommended for the selective isolation of *Pseudomonas* species.

Composition

Per vial sufficient for 1000 ml medium

*Ingredients

Concentration

Penicillin G, potassium salt

100000IU

Directions:

Rehydrate the contents of 1 vial with 10 ml of sterile distilled water and aseptically to 1000 ml of sterile molten cooled (45-50°C) Penicillin and Pimaricin *Pseudomonas* Agar Base (PP *Pseudomonas* Agar Base) [M1788](#) along with 1 vial of PP Selective Supplement II [FD265](#). Mix well and pour into sterile Petri plates.

Type of specimen

Food and dairy samples; Water samples

Specimen Collection and Handling

For food and dairy samples follow appropriate techniques for handling specimens as per established guidelines (1,2,3). For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (4). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning & Precautions

For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (5,6).

Reference

1. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
2. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.
3. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
4. Baird R.B., Eaton A.D., and Rice E.W., (Eds.), 2015, Standard Methods for the Examination of Water and Wastewater, 23rd ed., APHA, Washington, D.C.
5. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
6. 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.

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PP Selective Supplement II

FD265

An antimicrobial supplement recommended for the selective isolation of *Pseudomonas* species.

Composition

Per vial sufficient for 980 ml medium

*Ingredients

Concentration

Pimaricin (natamycin)

0.010g

Directions:

Rehydrate the contents of 1 vial with 10 ml of sterile distilled water and aseptically to 980 ml of sterile molten cooled (45-50°C) Penicillin and Pimaricin *Pseudomonas* Agar Base (PP *Pseudomonas* Agar Base) [M1788](#) along with 1 vial of PP Selective Supplement [FD264](#). Mix well and pour into sterile Petri plates.

Type of specimen

Food and dairy samples; Water samples

Specimen Collection and Handling

For food and dairy samples follow appropriate techniques for handling specimens as per established guidelines (1,2,3). For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (4). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning & Precautions

For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (5,6).

Reference

1. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
2. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.
3. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
4. Baird R.B., Eaton A.D., and Rice E.W., (Eds.), 2015, Standard Methods for the Examination of Water and Wastewater, 23rd ed., APHA, Washington, D.C.
5. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
6. 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.

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NoCef Selective Supplement

FD274

Recommended for selective isolation & differentiation of *Salmonella* species.

Composition

Per vial sufficient for 1000 ml medium

*Ingredients	Concentration
Novobiocin	10mg
Cefsulodin	24mg

Directions:

Rehydrate the contents of 1 vial aseptically with 5 ml of sterile distilled water. Mix gently to dissolve the contents completely. Aseptically add the rehydrated contents to 1000 ml of sterile, cooled (45-50°C) HiCrome™ Selective Salmonella Agar Base [M1842](#)/ HiCrome™ Selective Salmonella HiCynth™ Agar Base [MCD1842](#). Mix well and pour into sterile Petri plates.

Type of specimen

Clinical samples - Stool, urine, etc. Food samples

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2).

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

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

Warning & Precautions

In Vitro diagnostic use. For professional 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.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

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 (1,2).

Reference

1. Isenberg (Ed.),2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington. D.C.
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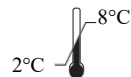
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