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 byacid 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 posses 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-dimethy-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 neccessity 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
Pseudomonas aeruginosa ATCC 27853	positive : deep purplish blue colouration of disc

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

Revision : 1 / 2011

Technical Data

Bordetella Selective Supplement FD004

An antibiotic supplement for the selective isolation of *Bordetella pertussis*.

Composition

Per vial sufficient for 500 ml/ 1000 ml medium

Ingredients	Concentration
Cephalexin	20mg

Directions:

Rehydrate the content 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) Bordet Gengou Agar Base M175/ M175A/ Bordet Gengou HiVeg™ Agar Base MV175 / MV175A or 1000 ml of sterile, molten Charcoal Agar Base w/Niacin M1053/ Charcoal HiVeg™ Agar Base w/Niacin MV1053 together with 10% v/v defibrinated horse blood. Mix well and pour into sterile petri plates. The vial content may be added to 500 ml of sterile half strength Charcoal Agar Base M344/ Charcoal HiVeg™ Agar Base MV344 with 10% v/v defibrinated horse blood for use as a transport medium for *Bordetella pertussis*.

Storage and Shelf Life

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

*** Not For Medicinal Use**

Revision : 02/2021

IVD — In vitro diagnostic medical device

CE Marking

2°C – 8°C — Storage temperature

Do not use if package is damaged

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Technical Data

Clostridium Difficile Supplement

FD010

An antibiotic supplement recommended for the selective isolation of *Clostridium difficile*.

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
D-Cycloserine	250mg
Cefoxitin	8mg

Directions:

Rehydrate the contents of one vial aseptically with 2 ml sterile distilled water. Mix well and aseptically add along with 7% v/v defibrinated horse blood to 500 ml sterile, molten, cooled (45-50°C) Clostridium Difficile Agar Base M836 / Clostridium Difficile HiVeg™ Agar Base MV836 / Clostridium Brazier Agar Base M1803 . Mix well and pour into sterile petri plates. Sheep blood may be used in place of horse blood but some strains of the organism will show a slightly reduced growth.

Storage and Shelf Life

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

Revision : 02/2021

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Technical Data

T.S.C. Supplement (Perfringens T.S.C. Supplement) FD014

An antibiotic supplement, recommended for the selective isolation of *Clostridium perfringens*.

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
D-Cycloserine	200mg

Directions:

Rehydrate the contents of 1 vial aseptically with 2 ml sterile distilled water. Mix well and aseptically add to 475 ml of sterile, molten, cooled (45-50ºC) Perfringens Agar Base (T.S.C./S.F.P.)M837/Perfringens HiVeg™ Agar Base (T.S.C. / S.F.P.) MV837/Perfringens Agar Base, Granulated (Tryptose Sulphite Cycloserine Agar Base, Granulated) (T.S.C./S.F.P. Agar Base, Granulated)GM837/Perfringens HiCynth™ Agar Base (T.S.C/S.F.P HiCynth™ Agar Base) MCD837 alongwith 25 ml of Egg Yolk Emulsion FD045 or 500 ml of sterile, molten, cooled (45-50ºC) Perfringens Agar Base M837I or Tryptose Cycloserine Dextrose Agar Base M1233 /Tryptose Cycloserine Dextrose HiVeg™ Agar Base MV1233 or Tryptose Cycloserine Azide Agar Base M1279 or Tryptone Yeast Sodium sulphite Agar Base M2046I or S.F.P. Agar Base M1005F. Mix well and pour into sterile petri plates.

Storage and Shelf Life

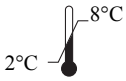
Store at 2-8°C. Use before expiry date on the label.

*** Not For Medicinal Use**

Revision : 03/2021

IVD — In vitro diagnostic medical device

CE Marking



Storage temperature

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Technical Data

GC Supplement w/ Antibiotics

FD021

An antibiotic and enrichment supplement recommended for the selective isolation of pathogenic *Neisseria*.

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
Yeast autolysate	5g
Colistin methane sulphonate	3.750mg
Dextrose	0.750g
Trimethoprim	2.500mg
Sodium bicarbonate	0.075g
Nystatin	6250Units
Vancomycin	1.500mg

Directions:

Rehydrate the contents of 1 vial aseptically with 15 ml of sterile distilled water. Mix well and add aseptically to 500 ml of sterile, molten, cooled (45-50°C) GC Agar Base M434 / GC HiVeg™ Agar Base MV434 / Thayer Martin Medium Base M413 / Thayer Martin HiVeg™ Medium Base MV413 along with separately prepared Hemoglobin FD022 . Mix well and pour into sterile petri plates.

Storage and Shelf Life

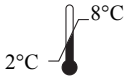
Store at 2-8°C. Use before expiry date on the label.

*** Not For Medicinal Use**

Revision : 02/2021

IVD — In vitro diagnostic medical device

CE Marking



Storage temperature

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Technical Data

V.C.N. Supplement

FD023

An antibiotic supplement, recommended for the selective isolation of *Neisseria gonorrhoeae* and *Neisseria meningitidis*.

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
Vancomycin	1.500mg
Colistin methane sulphonate	3.750mg
Nystatin	6250Units

Directions:

Rehydrate the contents of 1 vial aseptically with 2 ml sterile distilled water. Mix well and aseptically add it to Thayer Martin Medium Base M413 / Thayer Martin HiVeg™ Medium Base MV413- for 440 ml of medium aseptically add 50ml sterile lysed blood and one vial of V.C.N. Supplement FD023 along with one vial of Vitamino Growth Supplement FD025. 2% Haemoglobin Solution (250ml) FD022 can be used instead of sterile lysed blood in 250ml of medium. In GC Agar Base M434/ GC HiVeg™ Agar Base MV434 for 250 ml of can be used instead of sterile lysed blood in 250 ml of 2% Haemoglobin Solution FD022 and GC Supplement w/Antibiotics FD021, one vial of Vitamino Growth Supplement w/ Antibiotics FD021 for additional selectivity. If desired V.C.N. Supplement FD023 can be used along with GC Supplement w/ Antibiotics FD021 for additional selectivity.

In Transgrow Medium Base M1149 for 440 ml of medium aseptically add 50 ml of sterile 2% Haemoglobin Solution FD022 and one vial of V.C.N. Supplement FD023 along with one vial of Vitamino Growth Supplement FD025.

Storage and Shelf Life

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

*** Not For Medicinal Use**

Revision : 02/2021

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CE — CE Marking

2°C – 8°C — Storage temperature

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Technical Data

Cetrinix 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.

Storage and Shelf Life

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

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Revision : 02/2021

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Technical Data

Yersinia Selective Supplement

FD034

An antibiotic supplement recommended for the selective isolation of *Yersinia enterocolitica* .

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
Cefsulodin	7.500mg
Triclosan(Irgasan)	2mg
Novobiocin	1.250mg

Directions:

Rehydrate the contents of 1 vial aseptically with 2 ml of sterile distilled water and 1 ml of ethanol. Mix gently to dissolve the contents completely and aseptically add to 500 ml of sterile, molten, cooled (45-50ºC) Yersinia Selective Agar Base M843 / Yersinia Selective HiVeg™ Agar Base MV843 . Mix well and pour into sterile petri plates.

Storage and Shelf Life

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

Revision : 1 / 2012

*** Not For Medicinal Use**

Technical Data

Egg Yolk Tellurite Emulsion (50 ml/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
Final pH (at 25°C)	7.6±0.2

Directions:

Warm up the refrigerated Egg Yolk Tellurite 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 HiVeg™ Agar Base MV043 / Baird Parker Agar Base w/ Sulpha M1140 / HiCrome Aureus Agar Base M1468 . Mix well and pour into sterile petri plates.

Storage and Shelf Life

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

Revision : 1 / 2012

Technical Data

Urea 40% (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 (45-50ºC) 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.

Storage and Shelf Life

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

Revision : 1 / 2012

Technical Data

Listeria Selective Supplement (PALCAM)

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 (45-50ºC) Listeria Identification Agar Base (PALCAM) M1064 / Listeria Identification HiVeg™ Agar Base (PALCAM) MV1064 / Listeria Identification Broth Base (PALCAM) M1090 / Listeria Identification HiVeg™ Broth Base (PALCAM) MV1090 . Mix well and dispense as desired.

Storage and Shelf Life

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

Revision : 1 / 2012

*** Not For Medicinal Use**

Technical Data

KL Virulence Enrichment (20 ml per vial) FD072

A serum free enrichment recommended for cultivation and in vitro toxicity testing of *Corynebacterium diphtheria* .

Composition

Per vial sufficient for 100 ml medium

Ingredients	Concentration
Casein acid hydrolysate	10g
Glycerol	10ml
Polysorbate 80	10ml

Directions:

Warm up the refrigerated contents of 1 vial to 50°C and aseptically add 2 ml in 100 mm sterile petri plate along with 0.5 ml of 1% Potassium Tellurite Solution FD052 . Quickly add 10 ml sterile molten, cooled (45-50°C) Diphtheria Virulence Agar Base M882 / Diphtheria Virulence HiVeg™ Agar Base MV882 into the plate. Mix well.

Storage and Shelf Life

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

Revision : 1 / 2012

Technical Data

Diphtheria Virulence Supplement (Part A & Part B) FD073

A selective supplement recommended for the isolation and presumptive identification of *Corynebacterium diphtheriae* .

Composition

Per vial sufficient for 1000 ml medium

Ingredients	Concentration
Part A	
Horse serum	100ml
Part B	
Potassium tellurite	1ml

Directions:

Warm up the refrigerated contents of Part B vial and aseptically add 29 ml sterile distilled water. Mix thoroughly. Aseptically add warmed up (to 50°C) contents of Part A and B vials to sterile, molten, cooled (45-50°C) Tinsdale Agar Base M314 / Tinsdale HiVeg™ Agar Base MV314 as required.

For 10 ml of M314 : 1.0 ml of Part A and 0.3 ml of Part B, is recommended.

Mix well and pour into sterile petri plates.

Storage and Shelf Life

Store Part A at -20°C & Part B at 2-8°C. Use before the expiry date on the label.

Revision : 1 / 2012

Technical Data

Haemophilus Growth Supplement

FD117

A growth supplement recommended for cultivation of *Haemophilus influenzae* .

Composition

Per vial sufficient for 500 ml medium

Ingredients	Concentration
NAD	7.500mg
Haematin	7.500mg

Directions:

Rehydrate the contents of one vial aseptically with 5.0 ml sterile distilled water. Mix well and aseptically add to 500 ml sterile, molten, cooled (45-50°C) Haemophilus Test Agar Base M1259 .Mix well and aseptically pour into sterile petri plates.

Storage and Shelf Life

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

Revision : 1 / 2012

Technical Data

Anthracis Selective Supplement

FD185

Anthracis Selective Supplement is recommended for the selective isolation of *Bacillus anthracis* .

Composition

Per vial sufficient for 1000 ml medium

*Ingredients	Concentration
Lysozyme	300000Unit
Polymyxin B sulphate	30000Unit

Directions:

Rehydrate the contents of 1 vial aseptically with 10 ml sterile distilled water. Mix well and add aseptically to sterile molten, cooled to (45-50°C) PLET Agar Base M1446 / PLET Agar Base, Modified M1451 .Mix well and dispense as desired.

Storage and Shelf Life

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

Revision : 1 / 2012

*** Not For Medicinal Use**

MKTT Novobiocin 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 (45-50ºC) Mueller Kauffman Tetrathionate Novobiocin Broth Base M1496I . Mix well and dispense as desired.

Storage and Shelf Life

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

Revision : 1 / 2012

*** Not For Medicinal Use**

Technical Data

OA Listeria Selective Supplement

FD212A

A selective supplement recommended by ISO Committee for the isolation of *Listeria* species.

Composition

Per vial sufficient for 500 ml medium

* Ingredients	Concentration
Polymyxin B sulphate	38350 IU
Ceftazidime	10 mg
Nalidixic acid, sodium salt	10 mg
Amphotericin B	5 mg

Directions

Rehydrate the contents of 1 vial aseptically with 2 ml of 0.2 N Sodium hydroxide, further add 8 ml of sterile distilled water. Mix well and aseptically add it to 465 ml of sterile, molten, cooled (45-50ºC) HiCrome™ Listeria Ottaviani-Agosti Agar Base M1540I / HiCrome™ Listeria Ottaviani-Agosti HiVeg™ Agar Base MV1540I / HiCrome™ Listeria Ottaviani-Agosti HiCynth™ Agar Base MCD1540I along with sterile contents of one vial of L. mono Enrichment Supplement I FD214 or add in 475 ml of sterile, molten, cooled (45-50ºC) L. mono Confirmatory Agar Base M1552 / L. mono Confirmatory HiVeg™ Agar Base MV1552 along with sterile contents of one vial of L. mono Enrichment Supplement II FD227. Mix well and pour into sterile petri plates.

Storage and Shelf Life

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

*** Not For Medicinal Use**

Revision : 00 / 2020

**L.mono Enrichment Supplement I

FD214

For selective differentiation of *Listeria monocytogenes* from other Listeria species, as per ISO Committee.

Composition

Per vial sufficient for 500 ml medium

Ingredients	Concentration
L – phosphatidylinositol	1g
Distilled water	25ml

Directions:

Thaw the contents of 1 vial of L. mono Enrichment Supplement I at room temperature. Aseptically add the sterile contents to 460 ml of sterile, molten, cooled (45-50ºC) L. mono Differential Agar Base M1540 / L. mono Differential HiVeg™ Agar Base MV1540 along with sterile rehydrated contents of 1 vial each of L. mono Selective Supplement I FD212 and L. mono Selective Supplement II FD213 . Mix well and pour into sterile petri plates.

Storage and Shelf Life

On receipt product should be stored at -20°C. Use before the expiry date on the label.

Revision : 1 / 2012

Technical Data

Vancomycin Supplement

FD233

An antibiotic supplement recommended by ISO Committee for selective enrichment of *Enterobacter sakazakii* .

Composition

Per vial sufficient for 1000 ml medium

*Ingredients	Concentration
Vancomycin	10mg

Directions:

Rehydrate the content of 1 vial aseptically with 10 ml sterile distilled water. Mix well and aseptically add it to 1000 ml of sterile, cooled (45-50ºC) Modified Lauryl Sulphate Tryptose Broth M1643 . Mix well and pour into sterile tubes.

Storage and Shelf Life

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

*** Not For Medicinal Use**

Technical Data

Neo Enrichment Selective Supplement

FD249

An antimicrobial supplement recommended for the selective isolation of *Listeria* species from food samples in 24 hours.

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
Ceftazidime	15mg
Nalidixic acid	10mg

Directions:

Rehydrate the contents of 1 vial with 5 ml of sterile distilled water and aseptically add to 500 ml of sterile, cooled Neo Enrichment Broth Base M1733 . Mix well and dispense in sterile test tubes.

Storage and Shelf Life

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

Revision : 1 / 2012

*** Not For Medicinal Use**

Technical Data

Hicrome™ Selective Salmonella Agar Supplement

FD274

For the selective isolation and differentiation of *Salmonella* species from coliforms by chromogenic method.

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 HiCrome™ Selective Salmonella Agar Base M1842 . Mix well and pour into sterile Petri plates.

Storage and Shelf Life

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

Revision : 1 / 2012

*** Not For Medicinal Use**

Technical Data

HiCrome™ Candida Differential Selective Supplement

FD283R

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

Composition

Per vial sufficient for 500 ml medium

*Ingredients	Concentration
Chloramphenicol	250mg

Directions:

Rehydrate the contents of 1 vial aseptically with 2 ml of 95% ethanol. Mix well and aseptically add to 500 ml of sterile, molten cooled (45-50ºC) HiCrome™ Candida Differential Agar Base M1297AR . Mix well and pour into sterile Petri plates.

Storage and Shelf Life

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

*** Not For Medicinal Use**