

Microbact™ Reagent Set D

REF MB1082A Microbact™ Reagent Set D 10ml

INTENDED USE

The Microbact Reagent Set D is a set of reagents for use as an aid in qualitative procedures for the detection of Gram-negative Bacilli in biochemical tests. The device is used in a diagnostic workflow to aid clinicians in the treatment options for patients suspected of having bacterial infections.

The device is not automated, is for professional use only and is not a companion diagnostic.

PRINCIPLE OF THE TEST

Microbact Reagent TDA, Microbact Reagents VP I and VP II, Microbact Reagents Nitrate A and Nitrate B and Microbact Reagent Indole-Kovacs are required for specific biochemical reactions.

Tests used in systems, such as the Microbact GNB Identification System, are based on microbial degradation of specific substrates detected by various indicators, which can require the addition of these reagents. The reactions employed are conventional biochemical reactions.

Microbact Reagent TDA:

One drop of TDA reagent is added to the well. Intracellular enzymes collectively called "tryptophanases" mediate $the\,degradation\,of\,tryptophan\,to\,produce\,indolepyruvate$ and other metabolic end products. Indolepyruvate can be detected by the addition of ferric chloride which forms a brown colour with indolepyruvate.

Microbact Reagents VP I and VP II:

The VP test is a two-step process. One drop of VP I reagent and one drop of VP II reagent are added to the well. Production of a pink-red complex indicates the production of acetoin from glucose has occurred.

Microbact Reagents Nitrate A and Nitrate B:

The nitrate reduction test is a two-step process. One drop of Nitrate A reagent and one drop of Nitrate B reagent are added to the ONPG well (only after reading the ONPG result). Production of a red colour indicates that nitrate reduction to nitrite (NO2) has occurred. A small amount of zinc powder should be added to those wells which exhibit a yellow colour, after the addition of the nitrate reagents. This will determine whether nitrate has been reduced completely to nitrogen gas (N^2), which would result in a yellow colour.

Microbact Reagent Indole-Kovacs:

Two drops of Indole-Kovacs reagent are added to the well. Intracellular enzymes collectively called "tryptophanases" mediate the degradation of tryptophan to produce indole and other metabolic end products. Indole can be detected by the addition of dimethylaminobenzaldehyde which forms a pink-red complex with indole.

KIT CONTENTS, PREPARATION FOR USE AND STORAGE

REF MB0180A

Microbact Reagent TDA - One 10 mL Wheaton dropper bottle with nozzle and cap. Hydrochloric acid (HCL)10%, Ferric Chloride anhydrous.

REF MB0181A

Microbact Reagent VP I - One 10 mL Wheaton dropper bottle with nozzle and cap. Reverse Osmosis (RO) water. Ethanol denatured 95%, α-naphthol (1-naphthol).

REF MB0184A

Microbact Reagent VP II - One 10 mL Wheaton dropper bottle with nozzle and cap. RO water, Potassium hydroxide, Creatine.

REF MB0186A

Microbact Reagent Nitrate A - One 10 mL Wheaton dropper bottle with nozzle and cap. RO water, Acetic acid. Sulphanilic acid.

REF MB0187A

Microbact Reagent Nitrate B - One 10 mL Wheaton dropper bottle with nozzle and cap. RO water, Acetic acid, Dimethyl naphthylamine.

REF MB0209A

Microbact Regent Indole-Kovacs -One 10 mL Wheaton dropper bottle with nozzle and cap. Iso-amyl alcohol. Dimethylaminobenzaldehyde. 36%

This product is ready for use and no further preparation is necessary. Store product in its original container at 2-8°C until expiry date.

PRECAUTIONS

This product is for in vitro diagnostic use and should be used by properly trained individuals. Precautions should be taken against the dangers of microbiological hazards by properly sterilizing specimens, containers, and media after use. Directions should be read and followed carefully.

Avoid contact with skin, eyes or clothing. Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion or inhalation.

Discard used material into a suitable waste container or disinfectant.

Do not use the product beyond its stated expiry date.

Do not use if there is evidence of contamination, or other signs of deterioration.

Do not use if packaging is damaged.

Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the Member State in which the user and/or the patient is established.

In the event of malfunction do not use device.

MB0180A - Microbact Reagent TDA

DANGER H290





	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H318	Causes serious eye damage
•	P302 + P352	IF ON SKIN: Wash with plenty of soap and water
	P332 + P313	If skin irritation occurs: Get medical advice/attention
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P310	Immediately call a POISON CENTER or doctor/ physician
	P280	Wear protective gloves/ protective clothing/eye protection/face protection

May be corrosive to metals

MB0181A - Microbact Reagent VP I

DANGER



H225	Highly flammable liquid and vapor	
H318	Causes serious eye damage	
P280	Wear eye protection/ face protection	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	
P310	Immediately call a POISON CENTER or doctor/ physician	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking	
crohact Reagent VPII		

MB0184A - Microbact Reagent VPII

DANGER



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2	H302	Harmful if swallowed		
	H314	Causes severe skin burns and eye damage		
•	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing		
	P310	Immediately call a POISON CENTER or doctor/ physician		
	P280	Wear protective gloves/ protective clothing/eye protection/face protection		
	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting		
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower		
Λi	licrobact Reagent Indole Kovacs			

MR0209Δ - Mi

DANGER





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	shower
crobact Re	agent Indole Kovacs
H226	Flammable liquid and vapor
H290	May be corrosive to metals
H332	Harmful if inhaled
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
EUH066	Repeated exposure may cause skin dryness or cracking
P280	Wear protective gloves/ protective clothing/eye protection/face protection
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/ physician
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P210	Keep away from heat, hot

surfaces, sparks, open

sources. No smoking

flames and other ignition

MB0187A - Microbact Reagent Nitrate B

DANGER





H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/ physician
P280	Wear protective gloves/ protective clothing/eye protection/face protection
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

5. SPECIMEN COLLECTION, STORAGE, AND TRANSPORT

Specimens should be collected and handled following recommended guidelines.

Refer to procedure notes with associated biochemical tests for details of specimen handling.

6. MATERIALS REQUIRED BUT NOT SUPPLIED

The reagents are intended for use as an aid in qualitative procedures with biochemical tests, such as the Thermo Scientific™ Oxoid™ Microbact™ GNB Identification System.

Refer to procedure notes with associated biochemical tests for details on required materials.

7. QUALITY CONTROL

Quality control should be run with each shipment and new lot number received. Each laboratory should follow their State and local requirements.

	Indole- Kovacs	VPI/II	Nitrate A/B	TDA
Escherichia coli (ATCC® 25922™)	Positive	Negative	Positive	Negative
Klebsiella aerogenes (ATCC® 13048™)	Negative	Positive	Positive	Negative
Proteus mirabilis (ATCC® 12453™)	Negative	Negative	Positive	Positive
Moraxella catarrhalis (ATCC® 8716™)	Negative	Negative	Negative	Negative

Do not use the test if the reactions of the control organisms are incorrect.

8. PROCEDURE

Refer to procedure notes with associated biochemical tests for details on use.

SYMBOL LEGEND

REF	Catalogue Number	
IVD	In Vitro Diagnostic Medical Device	
[]i	Consult instructions for use or consult electronic instructions for use	
1	Temperature Limitations (Storage temp.)	
®	Do not use if package is damaged	
	Not for near patient testing	
LOT	Batch Code (Lot Number)	
	Use By (Expiration Date)	
	To indicate the entity importing the medical device into the locale. Applicable to the European Union	
EC REP	Authorized representative in the European Community/European Union	
Made in Australia	Made in Australia	
UK CA	UK Conformity Assessed	
CE	European Conformity Assessment	
444	Manufacturer	



For technical information contact your local distributor.

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Version	Date of modifications introduced
1.0	December 2023
	Initial document

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