

Michrom™ Hydrocheck

Intended Use

Michrom™ Hydrocheck is used for detection of total coliforms and *E. coli* in drinking water and processed food samples.

Principle

Medium consists of peptone, sodium pyruvate, sorbitol and phosphate buffer which promotes rapid growth of organisms, even for sub-lethally injured coliform bacteria. The growth of Gram positive bacteria as well as certain Gram-negative bacteria is inhibited by the presence of secondary alcohol ethyloxylate surfactant which has no negative effect on the growth of coliform bacteria.

Formula*

Ingredients	g/L
Peptone #	3.0
Sodium Chloride	5.0
Sodium Dihydrogen Phosphate	2.2
Disodium Hydrogen Phosphate	2.7
Sodium Pyruvate	1.0
L-Tryptophan	1.0
Sorbitol	1.0
Secondary Alcohol Ethyloxylate Surfactant \$	0.15
Chromogenic Mixture	0.4
Agar	10.0
Final pH (at 25°C)	6.8 ± 0.2

*Adjusted to suit performance parameters.

Equivalent to Enzymatic digest of casein and yeast extract

\$ Example- Tergitol® 7

Storage and Stability

Store below 8°C in tightly closed container, preferably in dessicators and use freshly prepared medium. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Type of Specimen

Pharmaceutical samples; Clinical samples - Blood; Food and Dairy samples; Water samples

Specimen Collection and Handling

Ensure that all samples are properly labelled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

1. Suspend 26.50 g of the powder in 1000 mL purified / distilled water.
2. Mix well and heat to boiling to dissolve the powder completely.
3. Do not overheat, Do not autoclave.
4. Stir the contents regularly to assist dissolution (approx.35 minutes).
5. Some turbidity may occur but this does not affect the performance.

Quality Control

Dehydrated Appearance: Beige coloured, homogenous, free flowing powder

Prepared Appearance: Light yellow, very slightly opalescent gel forms in petridishes.

Cultural Response: Cultural characteristics is observed after an incubation of 18-24 hours at 35-37°C.

Organism (ATCC)	Growth	Colour of Colony
<i>Escherichia coli</i> (25922)	Good	Dark blue
<i>Citrobacter freundii</i> (8090)	Good	Dark pink
<i>Klebsiella pneumoniae</i> (13883)	Good	Dark pink
<i>Klebsiella aerogenes</i> (13048)	Good	Dark Pink
<i>Pseudomonas aeruginosa</i> Strain Boston 41501 (27853)	Good	Colourless
<i>Enterococcus faecalis</i> (29212)	Inhibited	-

Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
201130460100	Dehydrated Culture Media	100 g
201130460500	Dehydrated Culture Media	500 g

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
