



MIU MEDIUM BASE

TM 781

INTENDED USE

For detection of motility, urease and indole production

COMPOSITION

Ingredients	Gms/Ltr.
Casein enzymatic hydrolysate	10.000
Sodium chloride	5.000
Agar	2.000
Dextrose	1.000
Phenol red	0.010

PRODUCT SUMMARY AND EXPLANATION

MIU Medium Base is formulated to detect motility, urease and indole production in single tube.

PRINCIPLE

The medium contains Casein enzymatic hydrolysate as a source of amino acids and other nitrogenous. Sodium chloride is to maintain osmotic equilibrium. Dextrose is added to provide nutritional support as a carbohydrate source. Phenol red is the pH indicator which turns pink- red in alkaline conditions.

INSTRUCTION FOR USE

1. Dissolve 18.0gms in 950ml of distilled water.
2. Gently heat to boiling with gentle swirling and dissolve the medium completely.
3. Dispense in 95ml amounts into flasks.
4. Sterilize by autoclaving at 15psi (121°C) for 15 minutes.
5. Cool to 45-50°C and aseptically add 5ml sterile Urea solution 40% (TS 030), per 95ml of basal medium.
6. Mix well to dissolve properly.
7. Dispense into sterile test tubes and cool in an upright position.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Light orange to light pink coloured homogeneous free flowing powder

Appearance of prepared medium: Yellow to orange colour, clear to slightly opalescent gel in tubes

pH (at 25°C): 6.8 ± 0.2

INTERPRETATION:

Manufacturer Address: A- 902A, RIICO Industrial Area, Phase III, Bhiwadi-301019.



Cultural characteristics observed after incubation at 35 ± 2°C for 18 - 24 hours.

Microorganisms	ATCC	Inoculum (CFU/ml)	Motility	Indole production	Urease production
<i>Escherichia coli</i>	25922	50 - 100	+	+	-
<i>Enterobacter aerogenes</i>	13048	50 - 100	+	-	-
<i>Shigella flexneri</i>	9199	50 - 100	-	-	-
<i>Proteus mirabilis</i>	25933	50 - 100	+	-	+

STORAGE & STABILITY

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

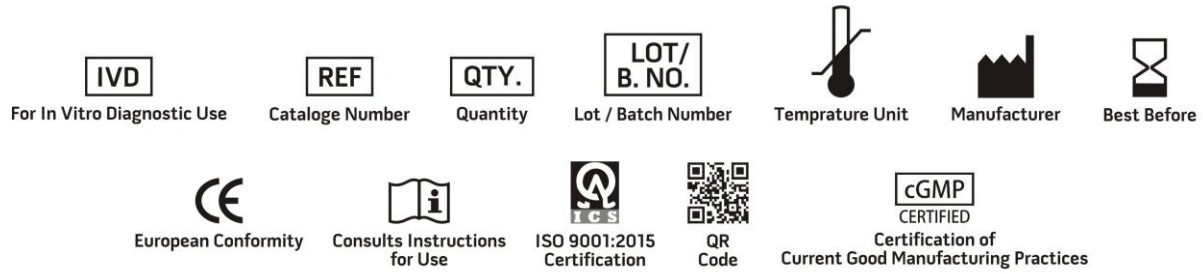
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PRODUCT DATA SHEET



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.