

## CM 20,092 – ANTIBIOTIC ASSAY MEDIUM H

### INTENDED USE

For the microbiological turbidimetric assay of Apramycin using Salmonella cholerasuis.

### PRODUCT SUMMARY ANDEXPLANATION

Antibiotic Assay Medium His employed for turbidimetric assay of Apramycin, an antibiotic of the aminocyclitol group, using Salmonella cholerasuis. It is formulated in accordance with British Pharmacopoeia. Turbidimetric antibiotic assay is based on the change or inhibition of growth of a test microorganism in a liquid medium containing a uniform concentration of an antibiotic. Use of this method is appropriate only when test samples are clear. Turbidimetric methods for determining the potency of antibiotics are inherently more accurate and more precise than comparable agar diffusion procedures.

### COMPOSITION

Ingredients	Gms / Ltr
Casein Enzymic Hydrolysate	6.000
Yeast Extract	2.000
D-Glucose	10.000

### PRINCIPLE

Casein enzymic hydrolysate and yeast extract provides essential nutrients for growth of test organism. D-Glucose is important as source of carbon to the test organism.

### INSTRUCTION FOR USE

Dissolve 18 grams in 1000 ml purified / distilled water containing 10 ml of Polysorbate 80.

Heat to boiling to dissolve the medium completely.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes or as per validated cycle. Cool to 45-50°C.

Mix well and pour into sterile Petri plates.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Light yellow coloured, clear to slightly opalescent solution.

pH (at 25°C) : 8.0±0.2

### INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Serial dilution with	Incubation Temperature	Incubation Period
Salmonella cholerasuis	12011	50-100	Good	Apramycin	35-37°C	12-24 Hours



**PACKAGING:**

Inpacksizeof500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°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.

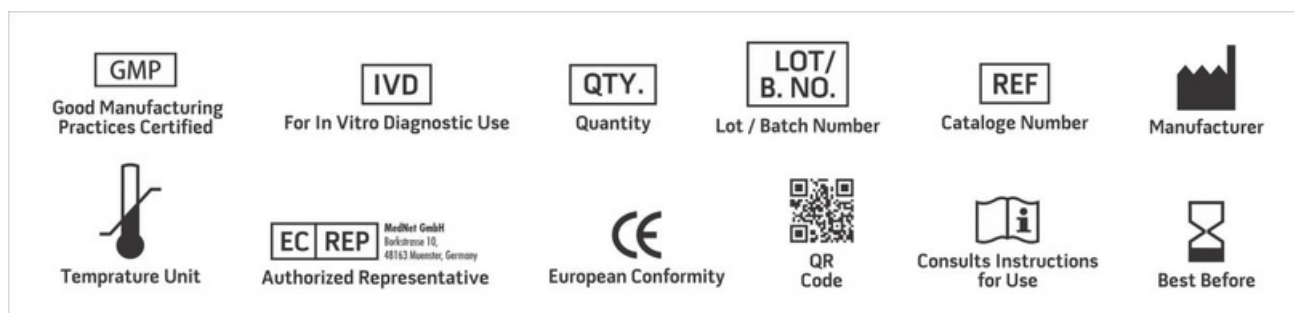
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

Afteruse,prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

1. BritishPharmacopoeia, 2009, British Pharmacopoeia Commission
2. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.



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

\*For LabUse Only  
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