

CM 21,446 – PRESPORULATION GROWTH MEDIUM

INTENDED USE

For the growth and sporulation of *Saccharomyces cerevisiae*.

PRODUCT SUMMARY AND EXPLANATION

Presporulation Growth Medium is used for the growth and sporulation of *Saccharomyces cerevisiae*. Pre-Sporulation Medium is used for strains that do not sporulate well when grown on sporulation medium directly. *Saccharomyces cerevisiae* is a unicellular eukaryote that has become an important tool in microbial genetic techniques. It undergoes meiosis and sporulation which takes place in a single cell. Presporulation medium stimulates the sporulation of diploid yeast cells which occurs only when cells are deprived of any carbon source.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	3.000
Yeast extract	8.000
Potassium acetate	20.000

PRINCIPLE

This medium consists of Potassium acetate which enhances the sporulation of diploid strains. Cells are first exposed to the pre-sporulation medium for 1-2 days before transferring them to sporulation medium.

INSTRUCTION FOR USE

Dissolve 31.0 grams in 1000 ml purified/distilled water.

Heat to boiling to dissolve the medium completely.

Dispense as desired and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow coloured, homogeneous, free flowing powder.

Appearance of prepared medium : Light yellow coloured, clear solution without any precipitate.

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Saccharomyces cerevisiae</i>	9763	10-100	Good-luxuriant	≥50%	35-37°C	18-48 Hours

PACKAGING:



In pack size of 500 gm bottles.

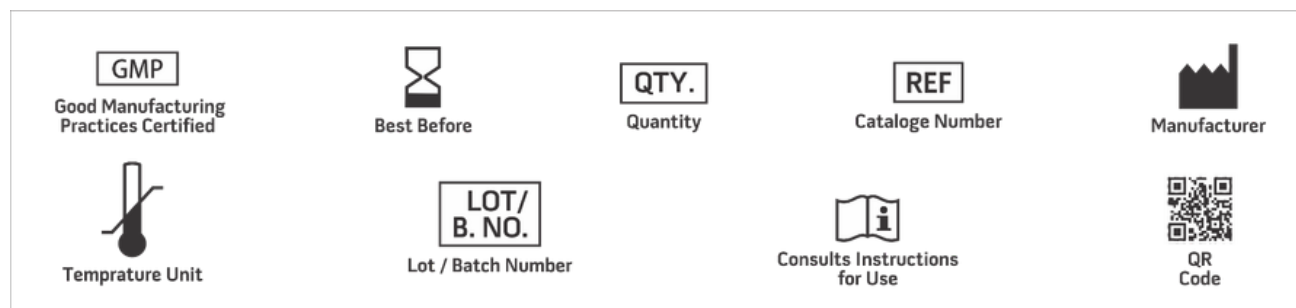
STORAGE

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

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



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

*For LabUse Only

