

## Technical Information

### Brent Supplement Mixture (BSM)

#### Product Code: G1101

Brent Supplement Mixture (BSM) is recommended for use with the addition in DOB or DOBA and carbon source for the growth of *Saccharomyces cerevisiae*.

#### Composition\*\*

Ingredients	Grams/Litre
Adenine	40.00
L-Arginine HCl	20.00
L-Aspartic acid	100.00
L-Glutamic acid	100.00
L-Histidine HCl	20.00
L-Isoleucine	300.00
L-Leucine	60.00
L-Lysine HCl	30.00
L-Methionine	20.00
Para-aminobenzoic acid (PABA)	8.6
L-Phenylalanine	50.00
L-Serine	375.00
L-Threonine	200.00
L-Tryptophan	40.00
L-Tyrosine	30.00
Uracil	20.00
L-Valine	150.00

\*\* Formula adjusted, standardized to suit performance parameters

#### Methodology

Suspend 1.55 grams in 1000 ml distilled water. Sterilize by autoclaving at 10 lbs pressure (115°C) for 20 minutes. Mix well and dispense as desired.

#### Principle and Interpretation

Brent Supplement Mixture (BSM) is recommended for use with the addition in DOB (Dropout Base) or DOBA (Dropout Based Agar) and carbon source for the growth of *Saccharomyces cerevisiae*. This yeast strain is called budding yeast and is extensively studied microorganism in molecular and cell biology. Brent Supplement Mixture (BSM) is used as an amino acid supplement for all strains of *Saccharomyces cerevisiae* which supplies the essential nutritional elements for budding yeast cells. It is composed of all the amino acids required for the vigorous growth of *Saccharomyces cerevisiae*. It can be mixed with yeast nitrogen base (YNB), Ammonium sulphate and an appropriate carbon source (glucose/galactose/raffinose) to produce a media suitable for the growth of budding yeast.

#### Quality control

##### Appearance of Powder :

White to cream coloured, homogeneous, free flowing powder.

##### Colour and Clarity :

Colourless, clear solution without any precipitate.

##### Cultural Response :

Cultural characteristics observed after incubation at 25-30°C for 18 - 48 hours.

##### Organisms (ATCC)

*Saccharomyces cerevisiae* ATCC 9763

##### Growth

good-luxuriant

## Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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