

Certificate of Analysis

Product: CSM-His-Leu
Catalog No.: 4520-412; 4520-422
Lot No.: 64590

FORMULATION:

Drop-Out Supplements	mg/L
Adenine	10
L-Arginine HCl	50
L-Aspartic Acid	80
L-Histidine HCl	0
L-Isoleucine	50
L-Leucine	0
L-Lysine HCl	50
L-Methionine	20
L-Phenylalanine	50
L-Threonine	100
L-Tryptophan	50
L-Tyrosine	50
Uracil	20
L-Valine	140
Total	670

Recommended Use:

Add 0.69 g of CSM-His-Leu to each liter of DOB (or DOBA) and autoclave at 121°C for 25 minutes for complete synthetic defined single drop-out medium for *S.cerevisiae*.

Storage:

Store CSM-His-Leu powder at ambient temperature (15-30°C). CSM powder is hygroscopic, therefore minimize exposure to air to prolong storage of powder mixture. Store sterile agar medium at 4°C. And liquid medium at 15-30°C in subdued light.

Shelf Life: Storage life in closed container: 4 years from the date the powder was made.

Quality Assurance Information

All MP Biomedicals products are thoroughly tested to ensure reliable results in the laboratory.

Media Preparation:

Reagents are tested and chosen for their ability to promote optimum growth of yeast strains when combined in the DOB (or DOBA) with CSM-His-Leu formula. DOB (Drop Out Base) is 1.7g Yeast Nitrogen Base, 5g Ammonium Sulfate, 20g Dextrose per liter. DOBA is DOB with 17% agar. Chosen reagents are combined in the proper proportions according to the formulation listed in the certificate of analysis and milled to a powder which thoroughly blends the reagents for uniform distribution. A sample of the milled and blended formulation was used to prepare liquid medium (or plate medium) by adding 2.7g DOB (or 43.7g DOBA) powder and 0.69 g of CSM-His-Leu to a liter of purified water. The combinations were mixed by hand for about 1 minute to dissolve the dextrose and autoclaved at 121°C for 25 minutes. After cooling to 50°C, plates of DOBA with CSM-His-Leu were poured.

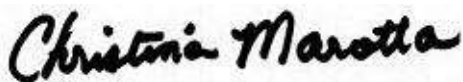
Quality Control Assay:

DOB (or DOBA) with CSM-His-Leu was visually inspected after autoclaving for complete dissolution of components. The pH of the medium was tested to insure that the proper specification was attained. Acceptable pH range is 4.0 - 4.8 for DOB with CSM-His-Leu, report result for DOBA with CSM-His-Leu. DOB (or DOBA) with CSM-His-Leu was tested by *S.cerevisiae* cell growth at 30°C for approximately 48 hours.

Results of Quality Control Assay:

DOB (or DOBA) with CSM-His-Leu liquid solution was determined to have **some floating particles**. pH of solution of DOB with CSM-His-Leu was found to be **4.25/23.2°C**, pH of solution of DOBA with CSM-His-Leu was found to be **5.06/42.4°C**. The cell growth of DOB (or DOBA) with CSM-His-Leu passed the test.

Conclusions: This lot of CSM-His-Leu is released for product sales.



01/30/2015 - Christina Marotta
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