

Certificate of Analysis

Product: CSM-His-Ura
Catalog No.: 4520-312; 4520-322
Lot No.: 68390

FORMULATION:

Drop-Out		Supplementsmg/L
Adenine		10
L-Arginine	HCl	50
L-Aspartic		Acid80
L-Histidine		HCl0
L-Isoleucine		50
L-Leucine		100
L-Lysine HCl		50
L-Methionine		20
L-Phenylalanine		50
L-Threonine		100
L-Tryptophan		50
L-Tyrosine		50
Uracil		0
L-Valine		140
Total		750

Recommended

Add 0.75 g of CSM-His-Ura 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*.

Use:

Storage:

Store CSM-His-Ura powder at ambient temperature (15-30°C). CSM-His-Ura 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

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-Ura 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 4.37g DOBA) powder and 0.075 g of CSM-His-Ura to a 100 mL 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-Ura were poured.

Preparation:

Quality

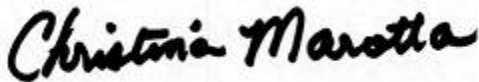
Control

Assay:

DOB (or DOBA) with CSM-His-Ura 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-Ura, report result for DOBA with CSM-His-Ura. DOB (or DOBA) with CSM-His-Ura 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-Ura liquid solution was determined to have	some floating particles.			
pH of solution of DOB with CSM-His-Ura was found to be	4.23@25.1°C,			
pH of solution of DOBA with CSM-His-Ura was found to be	5.02@44.4°C.			
The cell growth of DOB (or DOBA) with CSM-His-Ura	passed			the test.

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



04/29/2015 - Christina Marotta
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