

Certificate of Analysis

Product: CSM-Ura w/40mg/L Adenine

Catalog No.: 4512-7X2; 4512-722

Lot No.: 99896

FORMULATION:

Drop-Out	Supplementsmg/L
Adenine	50
L-Arginine	HCl 50
L-Aspartic	Acid80
L-Histidine	HCl20
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	810

Recommended

Add 0.8g of CSM-Ura w/40mg/L Adenine 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-Ura w/40mg/L Adenine 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 2-8°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. The following paragraphs describe media preparation and quality control procedures.

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-Ura w/40mg/L Adenine 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 0.08 g of CSM-Ura w/40mg/L Adenine 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-Ura w/40mg/L Adenine were poured.

Quality

Control

Assay:

DOB (or DOBA) with CSM-Ura w/40mg/L Adenine 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-Ura w/40mg/L Adenine, report result for DOBA with CSM-Ura w/40mg/L Adenine. DOB (or DOBA) with CSM-Ura w/40mg/L Adenine was tested by *S.cerevisiae* cell growth at 30°C for approximately 48 hours.

Results	of	Quality	Control	Assay:
DOB (or DOBA) was determined to be	with CSM-Ura w/40mg/L Adenine	clear solution	liquid solution without floating particles.	was found to be
pH of solution of DOB with CSM-Ura w/40mg/L Adenine				4.08@25.0°C,
pH of solution of DOBA with CSM-Ura w/40mg/L Adenine				4.70@25.0°C.
The cell growth of DOB (or DOBA) with CSM-Ura w/40mg/L Adenine				passed the test.

Conclusions: This lot of CSM-CSM-Ura w/40mg/L Adenine is released for product sales.

04/24/2017 - John Huang, PhD
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