

Certificate of Analysis

Product: CSM-Met-Ura
Catalog No.: 4520-812; 4520-822
Lot No.: 17658

FORMULATION:

Drop-Out	Supplementsmg/L
Adenine	10
L-Arginine	HCl 50
L-Aspartic	Acid80
L-Histidine	HCl20
L-Isoleucine	50
L-Leucine	100
L-Lysine HCl	50
L-Methionine	0
L-Phenylalanine	50
L-Threonine	100
L-Tryptophan	50
L-Tyrosine	50
Uracil	0
L-Valine	140
Total	720

Recommended

Add 0.72g of CSM-Met-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-Met-Ura 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. The following paragraphs describe BIO 101's 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-Met-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 plate medium by adding 43.7g DOBA powder and 0.72g of CSM-Met-Ura 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 were poured.

Quality

Control

Assay:

DOB with CSM-Met-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.

DOBA with CSM-Met-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 5.0 - 5.8.

The CSM was tested by spotting 16 strains of yeast that have distinct auxotrophic phenotypes onto the plates and incubating at 30°C. On days 2, 3 and 4 plates were examined for the pattern of growth. All strains grew on DOBA with CSM plates, i.e., with complete supplement mixture with no "drop-outs".

NUMBER AND PHENOTYPE OF CONTROL STRAINS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ADE	-	-	-	+	-	+	+	-	+	-	+	+	-	+	+	
ARG	+	+	-	+	+	+	+	+	+	+	+	-	+	+	-	+
ASP	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
HIS	+	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+
LEU	+	+	+	+	+	+	+	-	+	-	+	+	-	-	-	+
LYS	+	+	-	+	+	+	+	-	+	-	-	+	+	-	-	+
MET	+	+	-	-	+	-	+	+	+	+	+	+	+	+	-	+
THR	+	+	+	-	+	+	+	+	+	+	+	+	+	-	+	+
TRP	+	+	-	+	+	+	+	-	-	-	+	+	+	-	+	+
TYR	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+
URA	+	+	-	+	+	+	-	+	+	-	+	+	+	-	-	+

Results		of	Quality		Control	Assay:
CSM-Met-Ura	liquid	solution	was	determined	to	be
pH	of	solution	was	found	to	be
Growth	Studies:	All	strains	grew	except:	3, 4, 6, 7, 10, 14, 15.
						clear and particulate free.
						4.24 @ 25C (w/DOB)

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

Christina Marotta

01/07/2013 - Christina Marotta
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MSDS available online at www.mpbio.com

