

## Certificate of Analysis

**Product:** CSM-Met**Catalog No.:** 4510-7X2; 4510-712; 4510-722**Lot No.:** 99894**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
DL-Homoserine	80
L-Tryptophan	50
L-Tyrosine	50
Uracil	20
L-Valine	140
<b>Total</b>	<b>750</b>

**Recommended**

Add 0.75g of CSM-Met 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 powder at ambient temperature (15-30°C). CSM-Met 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.

### 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 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 0.075g of CSM-Met to a 100ml 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-Met were poured.

### Quality

### Control

### Assay:

DOB (or DOBA) with CSM-Met 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-Met, report result for DOBA with CSM-Met. DOB (or DOBA) with CSM-Met was tested by *S.cerevisiae* cell growth at 30°C for approximately 48 hours.

**Results of Quality Control Assay:**  
DOB (or DOBA) with CSM-Met liquid solution was determined to **be clear, pale yellow solution without floating particles.**

pH of solution of DOB with CSM-Met was found to be **4.09@25.0°C**,  
pH of solution of DOBA with CSM-Met was found to be **4.52@25.0°C**.  
The cell growth of DOB (or DOBA) with CSM-Met passed the test.

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

05/04/2017 - John Huang, PhD  
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