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Certificate of Analysis

Product: SD Medium - Ura
Catalog No.: 4813-0X2; 4813-065; 4813-075
Lot No.: 75049

FORMULATION: 1.7g YNB, 5 g Ammonium Sulfate, 20 g Dextrose, 0.69 g CSM-Ura (see below for CSM formulation).

Drop-Out Supplements	**mg/L**
Adenine	10
L-Arginine HCl	50
L-Aspartic Acid	80
L-Histidine HCl	20
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	**770**

Recommended Use:
Add contents of the pouch (13.7 g) to 500 ml or (27.5 g) to 1000 ml of distilled, deionized water. Add agar if pouring plates. Autoclave at 121°C for 15 minutes for complete synthetic defined single drop-out medium for the growth of *S.cerevisiae.*

Storage:
Store SD Medium-Ura pouch at ambient temperature (15-30°C). SD Medium-Ura 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: SD Medium-Ura has a shelf life of 4 years in an unopened pouch.

Quality Assurance Information

Media Preparation:

Reagents are tested and chosen for their ability to promote optimum growth of yeast strains when combined in the SD Medium-Ura formula. DOB (Drop Out Base) is 1.7g Yeast Nitrogen Base, 5g Ammonium Sulfate, 20g Dextrose per liter. DOBA is DOB with 17g per liter of 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 2.75g of SD Medium-Ura only or 2.75g of SD Medium-Ura and 1.7g Agar to

100ml of purified water. The combinations were mixed by hand for about 1 minute to dissolve the dextrose and autoclaved at 121°C for 15 minutes. After cooling to 50°C, plates of SD Medium-Ura with Agar were poured.

SD Medium-Ura only or SD Medium-Ura with agar 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 3.6 - 5.5 for SD Medium-Ura only, report result for SD Medium-Ura with agar. The SD Medium-Ura or SD Medium-Ura with agar was tested by *S.cerevisiae*cell growth at 30°C for approximately 48 hours.

Results of Quality Control Assay:

SD Medium-Ura only or SD Medium-Ura with agar liquid solution was determined to be **clear** and **particulate free**. pH of solution of SD Medium-Ura only was found to be **4.27** @ **28.9°C**, pH of solution of SD Medium-Ura with agar was found to be **5.12** @ **46.4°C**, The cell growth of SD Medium-Ura only (or SD Medium-Ura) with agar passed the test.

Conclusions:

This lot of SD Medium-Ura is released for product sales.

09/16/2015 - John Huang, PhD
QBioGene/MP Biomedicals, LLC
Quality Control Manager

MSDS available online at www.mpbio.com