MP Biomedicals, LLC
QBioGene

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product: SC-Ura
Catalog No.: 4410-6X2; 4410-622
Lot No.: 104879

Drop-Out		Supplements	mg/L
Adenine			21
L-Alanine			86.5
L-Arginine	HCl		85.6
L-Asparagine			85.6
L-Aspartic		Acid	85.6
L-Cysteine HCl			85.6
Glutamine			85.6
L-Glutamic Acid			85.6
Glycine			85.6
L-Histidine		HCl	85.6
Myo-Inositol			85.6
L-Isoleucine			85.6
L-Leucine			173.4
L-Lysine HCl			85.6
L-Methionine			85.6
Para-Aminobenzoic Acid			8.6
L-Phenylalanine			85.6
L-Proline			85.6
L-Serine			85.6
L-Threonine			85.6
L-Tryptophan			85.6
L-Tyrosine			85.6
Uracil			0
L-Valine			85.6
Total			**1915**

Recommended Use:
Add 1.9 g of SC-Ura to each liter of DOB (or DOBA) and autoclave at 121°C for 15 minutes for complete synthetic defined medium for *S.cerevisiae.*

Storage:
Store SC-Ura powder at ambient temperature (15-30°C). SC powder is hygroscopic, therefore minimize exposure to air to prolong storage of powder mixture. Store sterile medium at 2-8 °C.

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 Drop Out Base (DOB) or Drop Out Base with 17 g Agar (DOBA) formula, with SC-Ura. DOB contains 1.7g Yeast Nitrogen Base, 5g Ammonium Sulfate, and 20g Dextrose per liter. Chosen reagents are combined in the proper proportions according to the formulation listed on the Certificate of Analysis and milled to thoroughly blend the reagents for a uniform distribution. A sample of the milled and blended formulation was used to prepare liquid (or plate) medium by adding 2.7g of DOB (or 4.37g DOBA) powder and 0.19 g of SC-Ura 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 15 minutes. After cooling to 50°C, plates of DOBA with SC-Ura were poured.

DOB (or DOBA) with SC-Ura liquid solution 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 SC-Ura. DOB (or DOBA) with SC-Ura was tested by *S.cerevisiae*cell growth at 30°C for approximately 48 hours.

Results of Quality Control Assay:
Hot SC-Ura liquid solution was determined to be **clear**, **light yellow solution.**
pH of solution of DOB with SC-Ura was found to be **4.33**. pH of solution of DOBA with SC-Ura was found to be **5.63**.
The cell growth of DOB (or DOBA) with SC-Ura passed the test.

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

07/26/2017 - John Huang, PhD
QBioGene/MP Biomedicals, LLC
Quality Control Manager

MSDS available online at www.mpbio.com