

## Certificate of Analysis

**Product:** SC-Ade-His-Leu-Trp  
**Catalog No.:** 4440-122  
**Lot No.:** 35101

Drop-Out Supplements	mg/L
Adenine	0
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	0
Myo-Inositol	85.6
L-Isoleucine	85.6
L-Leucine	0
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	0
L-Tyrosine	85.6
Uracil	85.6
L-Valine	85.6
<b>Total</b>	<b>1635.9</b>

**Recommended Use:**

Add 1.64 g of SC-Ade-His-Leu-Trp 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-Ade-His-Leu-Trp 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 4°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-Ade-His-Leu-Trp. 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 medium by adding 43.7g DOBA powder and 1.64 g of SC-Ade-His-Leu-Trp 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 15 minutes. After cooling to 50°C, plates were poured.

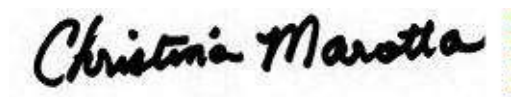
DOBA with SC-Ade-His-Leu-Trp liquid solution was visually inspected after autoclaving and pouring plates for complete dissolution of components. Solid plates were inoculated with control *S.cerevisiae* yeast strain and incubated for 3 days at 30C. Colony size was compared to the same strain grown on standard lot test media (SLTM).

**Results of Quality Control Assay:**

Hot SC-Ade-His-Leu-Trp liquid solution was determined to be **clear** and **particulate free**. Plates were clear and agar surface was smooth and firm. Cell growth (colony size) was equivalent on both SLTM and test plates. pH = 4.31 @ 23°C (pH range 4.0 - 4.8 w/ DOB).

**Conclusions:**

This lot of SC-Ade-His-Leu-Trp is released for product sales.



03/18/2013 - Christina Marotta  
QBioGene/MP Biomedicals, LLC  
Technical Director

MSDS available online at [www.mpbio.com](http://www.mpbio.com)