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Certificate of Analysis

Product: SC Amino Acid Mixture **Catalog No.:** 4400-022; 4400-0X2

Lot No.: 69574

Drop-Out		Supplementsmg/L
Adenine		21
L-Alanine		86.5
L-Arginine	HCI	85.6
L-Asparagine		85.6
L-Aspartic		Acid85.6
L-Cysteine HCI		85.6
Glutamine		85.6
L-Glutamic Acid		85.6
Glycine		85.6
L-Histidine		HCI85.6
Myo-Inositol		85.6
L-Isoleucine		85.6
L-Leucine		173.4
L-Lysine HCI		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		85.6
L-Valine		85.6
Total		2000.6

Recommended Use: 2 SC DOB DOBA) autoclave 121°C Add of to each liter of (or and at 15 for complete synthetic defined medium S.cerevisiae. for minutes for

Storage:

Store SC powder at ambient temperature (15-30°C). SC powder is hygroscopic, therefore prolong storage Store sterile medium at 4°C. exposure to air to powder mixture.

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. 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 DOB (or 4.37g DOBA) powder and 0.2 g of SC 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 powder with SC were poured.

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

Results				Quality			Control			Assay:					
DOB	(or	DOBA)	with	SC	liquid	solutio	n was	determ	ined	to	be	clear	and	particulat	e free.
рН	of	solution	o of	f	DOB	with	SC	was	four	nd	to	be	4.19	@	24.3°C ,
рН	of	solution	of		DOBA	with	SC	was	fou	nd	to	be	4.51	@	36.5°C ,
The	ce	ell gro	wth	of	. D(ЭB	(or	DOBA)	٧	vith	S	C	passed	l the	test.
Conclusions:															

Mixture

is

released

for

product

sales.

05/28/2015 - John Huang, PhD QBioGene/MP Biomedicals, LLC

lot

SC

Amino

Acid

Senior QC Chemist

Doculto

This

MSDS available online at <u>www.mpbio.com</u>