



MiniStar International Inc.

21118 Commerce Pointe Drive, Walnut, CA 91789

Tel: (909)598-3963

Fax: (909)598-5733

Certificate of Analysis

Date of Issuance: September 20, 2013

Date of Manufacture: July, 2013

Re-Test Date: June, 2015

Product Name: Acerola Powder Extract
 Latin Name: *Malpighia glabra L.*
 Raw Material Group: Fruit
 Extract Ratio: 4:1
 Batch No.: 280613.1220
 Product Code: ACE041
 Country of Origin: Brazil

Appearance: Fine powder
 Color: Light pink
 Odor: Characteristic
 Taste: Characteristic

ITEMS

SPECIFICATIONS

TEST RESULTS

TEST METHOD

Assay:	NLT 17.0% Ascorbic Acid	17.95%	HPLC
Carrier:	Maltodextrin	Conforms	Not applied
Method of Extraction:	Spray Dry	Conforms	Not applied
Mesh Size:	NLT 90% through 60 mesh	>90%	Sieve Screen
Solubility:	Water soluble	Soluble	Visual Insp.
Loss on Drying:	NMT 6.0%	3.90%	Karl Fischer/USP
Bulk Density:	0.20g/ml – 0.85g/ml	0.746g/ml	AOAC/USP
Heavy Metals:	NMT 10 ppm	<10 ppm	ICP/MS
Arsenic:	NMT 5 ppm	<5 ppm	ICP/MS
Lead:	NMT 1 ppm	<1 ppm	ICP/MS

MICROBIOLOGY

Total Plate Count:	NMT 1,000 cfu/g	<10 cfu/g	AOAC
Total Yeast & Mold:	NMT 100 cfu/g	<10 cfu/g	AOAC
Total Coliforms:	Absent in 10g	Absent	AOAC
E. Coli:	Negative	Negative	AOAC
Salmonella:	Negative	Negative	AOAC
Sterilization:	<u>This product has been treated by heat/steam</u>		

This COA is transposed from original

factory COA and proof read and signed by:

Date of Signature:

Nicholas Huang

September 20, 2013

Storage: Store in a well-closed container away from moisture, sunlight and heat.
 Recommend re-test two years from the date of manufacture.

The above certificate of analysis sheet contains information based on manufacturer's post-production finished raw materials and/or standard production specifications. This information and analysis is presented in good faith, but it is not warranted as to accuracy of result. The verification and use of the information shall be the sole responsibility or risk of the party using the information. Moreover, all information given does in no way account for changes occurring between purchase, due to natural product variations, and use of raw materials, nor does it warrant any nutritional claims. MiniStar disclaims any liability incurred in connection with the use of this information. All precautionary labels and notices should be read and understood by all supervisory personnel before using. The data contained herein should not be interpreted as permission to use any existing patents or copyrights.