



# Certificate of Analysis

Product Name: Quaternized Honey SA  
Lot Number: 35353  
Manufacture Date: November 17, 2023  
Re-Test Date: November 17, 2024  
CAS #'s: 223705-79-1  
EINECS #'s: N/A  
INCI Name: Hydroxypropyltrimonium Honey

Specification	Parameter	Result
Appearance	Clear to Slightly Hazy, Light Straw-Colored to Dark Amber Liquid	Pass
Color (Gardner)	13 Maximum	1
Odor	Slight, Characteristic Amino Note	Pass
pH (5% Aqueous Solution @ 25°C)	4.0 – 6.5	4.1
NVM (1g-1hr-105°C)	49.0 – 54.0%	51.4
Activity	31.0 – 45.0%	36.5
Heavy Metals	< 20 ppm	< 20 ppm
Lead	< 10 ppm	< 10 ppm
Arsenic	< 2 ppm	< 2 ppm
Cadmium	< 1 ppm	< 1 ppm
Microbial Content	< 10 CFU/g; No pathogens	Pass
Yeast & Mold	< 10 CFU/g	Pass
Gram Negs	0 CFU/g	Pass

May Sediment upon Standing; Mix Well Prior to Use

This product may be heated to 40-45°C before use or after addition to the water phase to maximize its solubility. The optimal temperature range for incorporation of this product is 40-45°C.

\*This product contains Fair Trade Certified® Honey, when available. Please consult the Fair Trade USA website (<http://www.fairtradeusa.org/>) for details about the process for certification of finished goods.

QA Signature Tori Hoag

Date December 1, 2023