



CLIENT & SAMPLE INFORMATION

Client

Axis Research LLC

Certified Date

10/14/2026

Lot / Batch

AX-260902-01

Product Name

Lemon Bottle

Form / Matrix

Liquid Blend

Volume

103.5 mL

This Certificate of Analysis confirms the identity and quality of the multi-component liquid blend listed herein. Compound identification was performed by HPLC-UV with LC-MS/MS confirmation. Declared active components were evaluated against their expected molecular masses and chromatographic profiles.

ACTIVE COMPONENT IDENTITY (LC-MS/MS)

Ingredients OBSERVED in this sample by LC-MS (ESI Q-TOF), listed with the ion actually measured. Each m/z below is a measurement of this val, accepted against the run's own mass-accuracy figure. Accurate mass establishes a mass and an elemental composition, not a structure, and peak intensity is not proportional to concentration - this table reports PRESENCE, not content or proportion.

Component	Theoretical m/z [M+H] ⁺	Observed m/z	Status
Riboflavin (B2)	377.15	377.15	DETECTED
Lecithin measured as PC 34:2 (lecithin)	796.5253	796.5240 [M+K] ⁺	DETECTED
Sucrose / Trehalose / Lactose	365.1054	365.1063 [M+Na] ⁺	DETECTED

Method: LC-MS (ESI Q-TOF), untargeted profile against a curated panel of compounds catalogued in liquid blends | 3 ingredient(s) observed. Only compounds OBSERVED in this sample are listed. A compound not listed here is not thereby absent from the product: the panel, the acquired mass range and positive-mode ionisation each bound what this method can see, and acidic or negative-mode species are poorly seen or invisible.

PHYSICOCHEMICAL PROPERTIES

Property	Specification	Result	Status
Appearance / Color	Conforms	Conforms	PASS
Physical Form	Liquid	Liquid	PASS
Particulate Matter	Essentially free	Conforms	PASS

TESTING METHODOLOGY

Compound Identity (LC-MS/MS)

Multi-component identity confirmation performed by reverse-phase HPLC with UV detection coupled with tandem mass spectrometry (LC-MS/MS). Each declared active is identified by retention time and, where a characteristic ion is available, confirmed by observed [M+H]⁺ molecular ion matched against its theoretical mass. Highly polar components lacking a UV chromophore (e.g. free amino acids) are reported by identity confirmation and may require orthogonal (derivatization / HILIC) methods for full quantitation.

