CLIENT & SAMPLE INFORMATION

Client	Goldenova LLC	**Certified Date**	09/09/2026
Lot / Batch	GNLB-260908	**Product Name**	Lemon Bottle
Form / Matrix	Liquid Blend	**Volume**	10 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 vial, 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
Caffeine	195.0876	195.0885	DETECTED
L-Carnitine	162.1125	162.1124	DETECTED
Glutathione	325.1171	325.1117 [M+NH4]+	DETECTED
Benzoic acid	123.0441	123.0426	DETECTED
myo-Inositol / Glucose / Fructose	181.0707	181.0712	DETECTED
Sucrose / Trehalose / Lactose	365.1054	365.1064 [M+Na]+	DETECTED
PC 34:1 (lecithin)	760.5851	760.5778	DETECTED
Riboflavin (B2)	377.1456	377.1409	DETECTED
PC 36:3 (lecithin)	822.5410	822.5521 [M+K]+	DETECTED
PC 34:2 (lecithin)	780.5514	780.5519 [M+Na]+	DETECTED

Method: LC-MS (ESI Q-TOF), untargeted profile against a curated panel of compounds catalogued in liquid blends | 10 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.

