CLIENT & SAMPLE INFORMATION

Client	Vanta labs research	**Certified Date**	08/24/2026
Lot / Batch	Vanta184290	**Product Name**	Lipo-C
Form / Matrix	Liquid	**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
Cyanocobalamin (B12)	1355.5747	1355.5721	DETECTED
Chlorobutanol	214.9194	214.9181 [M+K]+	DETECTED
Choline	104.1070	104.1075 intact cation	DETECTED
L-Carnitine	162.1125	162.1132	DETECTED
Asiaticoside (Centella)	997.4769	997.4782 [M+K]+	DETECTED
Pyridoxine (B6)	170.0812	170.0817	DETECTED
L-Arginine	175.1190	175.1194	DETECTED
myo-Inositol / Glucose / Fructose	203.0526	203.0526 [M+Na]+	DETECTED
Cryptotanshinone (Salvia)	335.1044	335.1027 [M+K]+	DETECTED
Melatonin	255.1104	255.1113 [M+Na]+	DETECTED
L-Proline	138.0525	138.0534 [M+Na]+	DETECTED
Dexpanthenol (B5)	244.0946	244.0957 [M+K]+	DETECTED
L-Phenylalanine	166.0863	166.0861	DETECTED
Sucrose / Trehalose / Lactose	343.1235	343.1263	DETECTED
Hydroxocobalamin (B12)	1368.5563	1368.5494 [M+Na]+	DETECTED
L-Tryptophan	243.0530	243.0541 [M+K]+	DETECTED

Method: LC-MS (ESI Q-TOF), untargeted profile against a curated panel of compounds catalogued in liquid blends | 16 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.

