

CERTIFICATE OF ANALYSIS

Product Name:	Liposomal Vitamin C	Product Code(s):	P000002
Customer:	Nutrivita	Customer Product Code(s):	-
Formulation Version:	3.0	Batch Number:	000119
Date of Manufacture:	03/06/2020	Expiry Date:	02/06/2022

Product has been manufactured in accordance with its Product Specification Sheet, version 3.0. Please see copy of the Product Specification Sheet for formulation and ingredient details.

Physical Analysis	Method (as necessary)	Acceptance Criteria	Result
Appearance ¹	-	Yellow liquid	Conforms
Average Fill Weight	-	300.0g ± 3.0g	Conforms
Specific Gravity	-	-	N/A

¹ Naturally sourced ingredients vary in both physical and organoleptic properties. Consequently, the appearance of products containing these ingredients may vary from batch to batch.

Active Ingredient Analysis ²	Method (as necessary)	Acceptance Criteria	Result
Ascorbate (Vitamin C)	HPLC	≥1000mg/5mL	Conforms

² Active ingredients not tested in house. Analysis performed by raw ingredient manufacturer(s) and quantified by input, i.e. confirming correct amount(s) of ingredient used in the batch record and the average fill weight is within the acceptance criteria.

Microbial Analysis	Method (as necessary)	Acceptance Criteria	Result
Total Viable Aerobic Colony Count	MW3 (Eurofins)	≤ 100 cfu/mL (at 22°C) ≤ 10 cfu/mL (at 37°C)	Conforms
Total Yeasts and Moulds	FDA BAM	≤ 100 cfu/mL	Conforms
<i>E. coli</i> (including O157:H7)	MW10 (Eurofins)	Absent ³ in 1 mL	Conforms
<i>S. aureus</i>	FDA BAM	Absent in 1 mL	Conforms
<i>Salmonella</i> spp.	FDA BAM	Absent in 25 mL/g	Conforms
<i>Listeria</i> spp.	FDA BAM	Absent in 1 mL	Conforms
<i>P. aeruginosa</i>	MW4 (Eurofins)	Absent in 1 mL	Conforms
Others (including <i>B. cereus</i> and <i>Shigella</i> spp.)	FDA BAM	Absent in 1 mL	Conforms

³ Absent means < 10 cfu/mL.

Heavy Metals Analysis	Method (as necessary)	Acceptance Criteria	Result
Arsenic	ICP-MS AOAC 993.14	Max 1.0 mg/kg	Conforms
Cadmium	ICP-MS AOAC 993.14	Max 1.0 mg/kg	Conforms
Lead	ICP-MS AOAC 993.14	Max 3.0 mg/kg	Conforms
Mercury	ICP-MS AOAC 993.14	Max 0.1 mg/kg	Conforms