

CERTIFICATE OF ANALYSIS			
<b>Product Name:</b>	Liposomal Vitamin C	<b>Product Code(s):</b>	P000271
<b>Customer:</b>	Novoma	<b>Customer Product Code(s):</b>	-
<b>PSS Version:</b>	2	<b>Batch Number:</b>	004289
<b>Date of Manufacture:</b>	09/01/2024	<b>Expiry Date:</b>	12/2025

**\*Note: This COA template is specific to the product code and forms part of the Product Specification Sheet (PSS). For document control purposes the page numbers of the COA follow on from the PSS sections hence this COA will not start at page 1.**

*This product has been manufactured in accordance with the approved Product Specification Sheet. Please refer to the Product Specification Sheet for formulation and ingredient details.*

Physical / Chemical Analysis	Method (as necessary)	Acceptance Criteria (as per PSS)	Result
Appearance <sup>1</sup>	-	Pale yellow to straw coloured liquid	Conforms
Taste	-	Lime flavour	Conforms
Average Fill Volume	-	300 mL ± 3 mL	Conforms
pH	-	6.76 ± 0.5	Conforms

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

ACTIVES			
Internal Analysis / List of actives			
Active Ingredient Analysis <sup>3</sup>	Method (if applicable)	Acceptance Criteria as PSS	Result (if applicable)
Vitamin C	By Input	1000 mg	N/A

<sup>2</sup> Target level: Vitamins: 80-150% of label claim – possibly higher for vitamin C in liquids. Minerals: 80-145% of label claim.


<sup>3</sup> 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.

MICROBIOLOGICAL ANALYSIS			
Internal Microbiological Results			
Microbial Analysis	Method (as necessary)	Acceptance Criteria	Result Inhouse Analysis <sup>3</sup>
Total Viable Aerobic Colony Count (Water/aqueous/Liposomal products)	AOAC	≤ 10 <sup>3</sup> cfu/g	Pass
Total Viable Aerobic Colony Count (Oil-based products)	AOAC	≤ 10 <sup>4</sup> cfu/g	-
The TVC Swabs used are capable of detecting Gram Positive and Negative, Aerobic and Facultative Bacteria Including E.Coli, Listeria, Staphylococcus, Pseudomonas, Vibrio, Shigella and Bacillus, therefore based on the pass result above the following can be considered as not detected: Listeria spp. S.aureus Pseudomonas spp. Shigella spp. Bacillus spp.			
Total Yeast and Moulds	AOAC	Absent	Pass
Enterobacteria spp. (Water/aqueous/Liposomal products)	AOAC	Absent in 1g	Pass
Enterobacteria spp. (Oil-based Products)	AOAC	Absent in 1g	-

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The EB Swabs used can detect all species within the Enterobacteriaceae family including E.Coli, Klebsiella, Citrobacter Enterobacter, Yersinia, Salmonella, Shigella, and Serratia, therefore based on the pass result above the following can be considered as not detected:  
 Salmonella spp.  
 E.coli.

<sup>3</sup> Result obtained from AOAC Accredited in-house quantitative analysis, using Luminescence spectrophotometry and external results from UKAS Accredited laboratory.

COA PREPARED BY	
Signature:	
Name:	Anjaly Nair
Position:	Quality Assistant
Email:	<a href="mailto:Anjaly.nair@nutrivitality.com">Anjaly.nair@nutrivitality.com</a>
Date	16/01/24

REVIEW & APPROVAL	
Signature:	
Name:	Dolly Gaddam
Position:	Assistant Quality Manager
Email:	<a href="mailto:dolly.gaddam@nutrivitality.com">dolly.gaddam@nutrivitality.com</a>
Date:	17/01/2024
Company	CMX Solutions
	Lucinda house, 8b Little oak drive
	Sherwood business park, Annesley
	NG15 0DR
	United Kingdom