

Certificate of Analysis

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Sample Identification

Sample Name Vitamin C Liposomal 500 mg
Batch Number 27364
Date Published 2026-05-26 10:48

Results for ORAL-0011

Vitamins	Result	Unit	Uncertainty	Acceptable Range
Ascorbic Acid (Vitamin C) Assay Polar Compound Screening 10mM ammonium formate buffer	493.44	mg/ capsule	[± 24.67]	
Capsule Mass Polar Compound Screening 10mM ammonium formate buffer	807.0	mg	[± 16.1]	
Elemental Impurities	Result	Unit	Uncertainty	Acceptable Range
Arsenic Elemental Impurities screening USP (232) / Ph. Eur. 5.20 / 2.4.20	< 0.001	ppm		
Cadmium Elemental Impurities screening USP (232) / Ph. Eur. 5.20 / 2.4.20	< 0.001	ppm		
Quicksilver Elemental Impurities screening USP (232) / Ph. Eur. 5.20 / 2.4.20	< 0.001	ppm		
Lead Elemental Impurities screening USP (232) / Ph. Eur. 5.20 / 2.4.20	< 0.001	ppm		

	Method Specification	
Determination of Ascorbic Acid content in capsules		
<i>Document number</i> ASA_005_2026	<i>Superseded document</i> -	<i>Number of pages</i> 2

1. Content Assesment

1.1. Instrumentation

Module	Name	Serial Number
System Controller	Shimadzu CBM-40 Lite	L221226351398
Degassing Unit	Shimadzu DGU-403	NA
Pump	Shimadzu LC-40B XR	L22146350580
Autosampler	Shimadzu SIL-40C XR	L22216351622
Colum Thermostat	Shimadzu CTO-40S	L22236351602
PDA Detector	Shimadzu SPD-M40	L22276352808
SQ MS Detector	Shimadzu LCMS-2050	O12476200760

1.2. Chromatographic conditions

Chromatographic conditions	
Eluent A	0.1% Formic Acid in 10mM Acetonitrile Ammonium Formate
Eluent B	0.1% Formic acid in 10mM Aqueous Ammonium Formate
Flow rate	1 mL/min
Program	Gradient elution
Injection volume	5 µL
Colum Temperature	40°C
Column	Phenomenex Biozen Luna NH2, 150x3mm 3µm
MS Detection	-175.02 Da

Gradient Program		
Time [min]	A [%]	B [%]
1	100	0
10.00	5	95
11.00	5	95
11.01	100	0
13	end	

1.3. Standard preparation

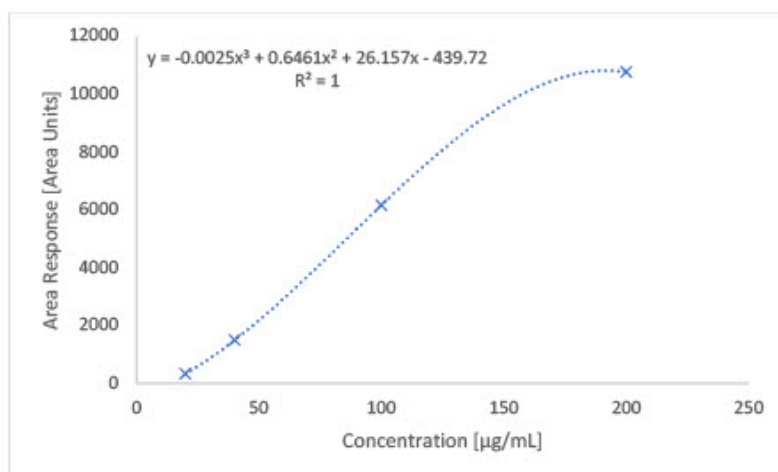
Approximately 50 mg of Ascorbic Acid(CRM, Pure) was weighed and exact mass used was recorded. Whole amount of standard was quantitatively transferred to volumetric flask and dissolved using ultrasonic bath. After full dissolution, flask was filled up to mark by water(HPLC, Gradient Grade) acidified by 0.1% formic acid and well mixed. Standard solution was diluted in mobile phase A solution to concentration 10ug/mL and placed for analysis.

1.4. Sample preparation

Whole content of capsule was weighed and exact mass of capsule filling was recorded. Capsule filling was quantitatively transferred to 50 mL volumetric flask and dissolved in water (LCMS, Gradient Grade) acidified by 0.1% Formic acid in ultrasonic bath. Volumetric flask was then filled up to mark by water (LCMS, Gradient Grade) acidified by 0.1% Formic acid and mixed well. 5 mL of solution was transferred to centrifuge vial and centrifuged at 3000G for 3 minutes to remove undissolved particles. 10 uL of this solution was transferred to 990uL of mobile phase A and placed for analysis.

1.5. Calibration curve

Calibration curve detail	
Quantitative method	External Standard
Calibration Type	Quadratic
Number of calibration points	4
Force through Zero	Disabled
Weighting Method	None

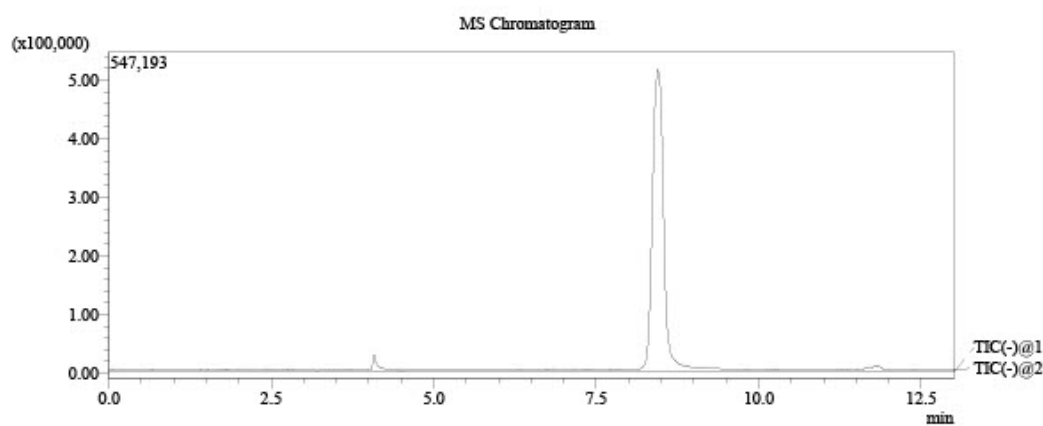


Analysis Report



Sample Information

Injection Volume : 5
Data File : Oral-0011_002.lcd
Method File : NH2_HILIC.lcm
Date Acquired : 5/25/2026 10:25:43 AM



MS Quantitative Table

Name	Ret. Time	m/z	Conc.	Unit
Ascorbic acid	8.449	175.02	493.438	mg/CAPS

Responsibles



Mr. Ján Galbavý
CEO

Analysis results relate only to the samples tested.

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