



AMSAL CHEM PVT. LTD.  
QUALITY CONTROL LABORATORY  
The Drugs & Cosmetic Act 1940 & the rules thereunder  
CERTIFICATE OF ANALYSIS

A-1 401, 402 & 403,  
G.I.D.C. Industrial Estate,  
Ankleshwar-393 002,  
District : Bharuch, Gujarat, India.  
CIN : U24231GJ1992PTCO18289

Format No : SOP/QC/111/FM01

Name of Product : NIACINAMIDE (NICOTINAMIDE) USP

Batch No. : 25093/NA

Mfg. Date : 07/11/2025

Exp. Date : 06/11/2030

Sample quantity : 50 gm.

CAS NO. : 98-92-0

A.R. No. : AC/NA/093/2025

Batch size : 1100.0 kgs

Date of Sampling : 10/11/2025

Date of Release : 13/11/2025

Analysed as per : USP 2024 / In House

| SR. No. | TEST                                                                  | SPECIFICATION                                                                                                       | RESULT                                                                                          |
|---------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 01      | Description                                                           | White, Crystalline Powder, odourless or Practically so, and has a bitter taste. It's solution is neutral to litmus. | White crystalline powder, odourless and has a bitter taste. It's solution is neutral to litmus. |
| 02      | Solubility                                                            | Freely soluble in water, and in alcohol, soluble in glycerin.                                                       | Passes                                                                                          |
| 03      | Identification<br>A. Infrared absorption<br>B. Ultraviolet absorption | Infrared absorption<br>Ultraviolet absorption<br>Ratio : A245/A262 between 0.63 and 0.67                            | Complies<br><br>0.67                                                                            |
| 04      | Melting Range                                                         | 128 °C to 131 °C.                                                                                                   | 128.4 °C to 130.6 °C                                                                            |
| 05      | Loss on Drying                                                        | NMT 0.5% w/w                                                                                                        | 0.24 % w/w                                                                                      |
| 06      | Residue on Ignition                                                   | NMT 0.1% w/w                                                                                                        | 0.03 % w/w                                                                                      |
| 07      | Readily Carbonizable Substances                                       | The Solution has no more colour than Matching Fluid A                                                               | Complies                                                                                        |
| 08      | Assay (On dried basis)                                                | 98.5 to 101.5 % w/w on dried basis.                                                                                 | 100.0 % w/w On dried basis                                                                      |

Additional Test:-

|    |                               |                        |                   |
|----|-------------------------------|------------------------|-------------------|
| 01 | Residual Solvents<br>Methanol | Not more than 3000 ppm | 74 ppm            |
| 02 | Heavy Metals                  | NMT 0.003 %            | Less than 0.003 % |

Report:

In the opinion of the undersigned the sample referred to above is of Standard Quality as per USP 2024 and In-House specification.

5  
13/11/2025  
Analysed by  
(QC Officer)

A. J. J.  
13/11/2025  
Checked by  
(Asst. QC Manager)

13/11/2025  
Approved by  
(Asst. QA Manager)