



Certificate of Analysis

Niacinamide USP

Catalog Number: NC1006
Lot Number: 1211801
CAS Number: 98-92-0
Synonym(s): Nicotinamide, Nicotinic acid amide, Pyridine-3-carboxylic acid amide, Vitamin B₃
Molecular Formula: C₆H₆N₂O
Molecular Weight: 122.12
Storage: 2°C – 8°C
Date of Manufacture: February 1, 2018
Retest Date: January 31, 2023

| Test | Specification | Result |
|--|----------------------------|-------------------|
| Appearance | White crystalline powder | Conforms |
| Assay (Dried Basis) | 98.5% to 101.0% | 99.82% |
| Identification ¹ | | |
| A. (FTIR) | To match reference spectra | Conforms |
| B. Absorbance (A245/A262) | 0.63 – 0.67 | Conforms |
| Loss on Drying | ≤ 0.5% | 0.093% |
| Melting Range | 128° to 131°C | 128.6° to 130.6°C |
| Readily Carbonizable Substances | To meet requirements | Conforms |
| Residue on Ignition | ≤ 0.1% | 0.04% |
| Heavy Metals | ≤ 20 ppm | < 5ppm |
| Arsenic | ≤ 3ppm | < 3ppm |
| Cadmium | ≤ 1ppm | < 1 ppm |
| Lead | ≤ 2ppm | < 2 ppm |
| Mercury | ≤ 0.1ppm | < 0.1 ppm |
| Total Plate Count | ≤ 1,000cfu/g | < 10 cfu/g |
| Yeast & Mold | ≤ 100cfu/g | < 10 cfu/g |
| Coliforms | Negative | Negative |
| <i>E. Coli</i> | Negative | Negative |
| <i>Salmonella</i> | Negative | Negative |
| <i>Staphylococcus Aureus</i> | Negative | Negative |
| This lot meets the specifications for USP40. | | |

Approved by:

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Date: December 11, 2018