



Certificate of Analysis

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|--------------|--|------------------|----------|
| Product Name | Nicotinamide | | |
| INCI Name: | NIACINAMIDE | | |
| CAS | 98-92-0 | | |
| MF | C ₆ H ₆ N ₂ O | | |
| EINECS | 202-713-4 | | |
| Batch Number | 20260609 | Manufacture Date | 20260609 |
| Report Date | 20260609 | | |

| Items Tested | Specifications | Results | Test Method |
|---------------------------------------|--|--------------------|----------------------------|
| Physical and Chemical Analysis | | | |
| Assay | 98.5 - 101.5% | 99.40% | HPLC |
| Appearance | Needle white crystal or powder | Complies | Organoleptic examination |
| Solubility | Freely soluble in water and in alcohol. Soluble in Glycerin. | Conforms | Visual inspection |
| Physical Characteristics | | | |
| Melting Range | 128 - 131 deg.C | 128.2- 128.9 deg.C | USP <741> |
| Loss on drying | ≤ 0.5% | 0.37% | USP <731> / Ph.Eur. 2.2.32 |
| Residue on ignition | ≤ 0. 1% | 0.08% | USP <281> / Ph.Eur. 2.4.14 |
| Readily Carbonizable Substances | To comply | Conform | USP <271> |
| Heavy Metals (ICP-MS) | | | |
| Total Heavy Metals | ≤0.003% | <0.003% | ICP-MS |
| Lead (Pb) | ≤ 2 ppm | < 2 ppm | ICP-MS |
| Arsenic (As) | ≤ 2 ppm | < 2 ppm | ICP-MS |
| Cadmium (Cd) | ≤ 2 ppm | < 2 ppm | ICP-MS |
| Mercury (Hg) | ≤ 0.5 ppm | <0.5 ppm | ICP-MS |
| Chloride | ≤0.053% | <0.014% | USP <221> |
| Sulfate | ≤0. 15% | <0.03% | USP <221> |
| Microbial Limits | | | |
| Total Aerobic Microbial Count | ≤ 1000 CFU/g | <10 CFU/g | USP <61> / Ph. Eur. 2.6.12 |
| Total Yeast and Mold Count | ≤ 100 CFU/g | <10 CFU/g | USP <61> / Ph. Eur. 2.6.12 |
| E. coli | Absent in 1g | Absent | USP <62> / Ph. Eur. 2.6.13 |
| Salmonella spp. | Absent in 10g | Absent | USP <62> / Ph. Eur. 2.6.13 |
| Pseudomonas aeruginosa | Absent in 1g | Absent | USP <62> / Ph. Eur. 2.6.13 |

Quality Statement: This product is manufactured under a quality system compliant with cGMP principles for both food and cosmetic applications. Specifications and test methods are established with reference to the relevant ISO Standards, Chinese National Standards (GB), United States Pharmacopeia (USP), and European Pharmacopoeia (Ph. Eur.).

For cosmetic use, the batch fully complies with the requirements of EU Cosmetic Regulation (EC) No 1223/2009, China's Safety Technical Standards for Cosmetics (2015 Edition), and U.S. FDA cosmetic GMP guidelines. For food use, the batch meets the applicable requirements of China's national food safety standards (including GB 2762, GB 2763, GB 7101) and the U.S. FDA Food Safety Modernization Act (FSMA) and applicable food additive regulations.

Storage: Store in tight, light-resistant containers. Avoid exposure to direct sunlight, moisture, and excessive heat.

Shelf Life: 24 months if stored under the above conditions and remains in original packaging.

