




**CERTIFICATE OF ANALYSIS**

|                   |                              |                        |                        |
|-------------------|------------------------------|------------------------|------------------------|
| Product Name      | NICOTINAMIDE                 | Grade                  | Feed Grade             |
| Batch No.         | B1901-NIA003                 | Batch Qty.             | 40 MT                  |
| Mfg. Date         | 04/01/19                     | Expiry Date            | 03/01/24               |
| A.R. No.          | F19QC1-00003                 | Specification No.      | FPS/NIA/L3N002/SPEC-01 |
| Storage condition | Preserve in tight containers | Specification Rev. No. | 02                     |
| Date of Approval  | 07.01.19                     |                        |                        |
| Invoice No.       | SZE180000767                 | Container No.          | MSKU 8894030           |
| Customer Name     | KORMOVIT LLC                 | Dispatch Qty.          | 20 MT                  |

| Sr. No. | Test                                      | Specification   | Result   |
|---------|---|---|--|
| 1.      | Description                               | White or almost white crystalline powder.   | White crystalline powder.  |
| 2.      | Solubility                                | Freely soluble in Water and in Alcohol. Soluble in Glycerin.  | Freely soluble in Water and in Alcohol. Soluble in Glycerin.   |
| 3.      | Identification                            |   |  |
| A.      | By IR                                     | IR absorption spectrum of the sample should be concordant with the spectrum obtained with Niacinamide working standard.                   | IR absorption spectrum of the sample is concordant with the spectrum obtained with Niacinamide working standard.       |
| B.      | UV Absorption                             | UV spectrum of the sample should be concordant with that of working standard spectrum.<br>Ratio: $A_{245}/A_{262}$ , Between 0.63 to 0.67 | UV spectrum of the sample is concordant with that of the working standard spectrum.<br>Ratio: $A_{245}/A_{262}$ , 0.65 |
| 4.      | Melting Range                             | 126.0 °C - 131.0 °C   | 128.5°C - 129.5°C  |
| 5.      | Water content (by KF)                     | NMT 0.10 % w/w  | 0.06% w/w  |
| 6.      | Residue on Ignition                       | NMT 0.50 % w/w  | 0.28% w/w  |
| 7.      | Heavy Metals (As Pb)                      | NMT 0.001 % w/w   | Less than 0.001 % w/w  |
| 8.      | Readily Carbonizable substances           | The color of the sample solution should have no more color than matching fluid A.   | The color of the sample solution have no more color than matching fluid A  |
| 9.      | Assay (on anhydrous basis) (by Titration) | NLT 99.0 % w/w  | 99.7% w/w  |

Remark: The material complies as per above specification.

|            | Prepared By   | Checked By  | Approved By   |
|------------|---|---|---|
| Sign./Date | <br>26/03/19 | <br>26/03/19 | For <br>26/03/19 |
| Name       | Clivrag Dary  | Suresh Kumar Panday   | Minhu Patel   |

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OUR VALUES



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