

## CERTIFICATE OF ANALYSIS

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>Product Name</b>     | Provitamin B5 Powder (dl-panthenol) |
| <b>Product Code</b>     | AL00083                             |
| <b>INCI Name</b>        | dl-panthenol                        |
| <b>CAS Number</b>       | 16485-10-2                          |
| <b>Lot Number</b>       | SDLH260312                          |
| <b>Manufacture Date</b> | 03/2026                             |
| <b>Re-test Date</b>     | 03/2028                             |

| ITEM                       | STANDARD                                                                                | RESULT        |
|----------------------------|-----------------------------------------------------------------------------------------|---------------|
| <b>Appearance</b>          | Well-dispersed white powder                                                             | Conform       |
| <b>Identification</b>      | infrared absorption<br>A deep blue color develops<br>A deep purplish red color develops | Conform       |
| <b>Assay</b>               | 99.0% ~ 102.0%                                                                          | 97.2%         |
| <b>Specific Rotation</b>   | -0.05 ~ +0.05                                                                           | 0             |
| <b>Residue on ignition</b> | ≤ 0.1%                                                                                  | 0.02%         |
| <b>Aminopropanol</b>       | ≤ 0.1%                                                                                  | 0.02%         |
| <b>Melting Range</b>       | 64.5 ~ 68.5°C                                                                           | 65.1 ~ 67.1°C |
| <b>Loss on drying</b>      | ≤ 0.5%                                                                                  | 0.2%          |
| <b>Heavy metal</b>         | ≤ 10ppm                                                                                 | Conform       |

### STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight.  
When stored for a period longer than the one specified above, quality should be checked before use.

**As it is electronically generated document, hence no signature required**

**Disclaimer:** The details provided here are specific to the identified material and may not remain accurate if that material is combined with other substances or used in different processes. The information presented is, to the best of the company's knowledge, considered precise and trustworthy as of the date mentioned. However, the company does not make any explicit or implied assurance, guarantee, or claim regarding the information's precision, trustworthiness, or comprehensiveness, and will not be held accountable for any losses, damages, or costs, whether direct or indirect, that arise from its use. Users are encouraged to independently verify the appropriateness and thoroughness of this information for their specific purposes.