



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name: Dexamethasone

Product Information

Product Number: DEX-20260222

Batch Number: DEX-SH2026022201

Brand: SIGALD

CAS Number: 50-02-2

Molecular Formula: $C_{22}H_{29}FO_5$

Molecular Weight: 392.46 g/mol

Quality Release Date: 22 FEB 2026

Test Results

| Test | Specification (Industry Standard) | Result | Unit | Test Method |
|---------------------------------|---|--------------------------|------|--|
| Appearance | White to off-white crystalline powder | White crystalline powder | - | Visual Inspection |
| Assay (HPLC) | ≥ 98.5% | 99.6% | % | High Performance Liquid Chromatography |
| Melting Point | 254-264°C (decomposes) | 258.7°C | °C | Capillary Melting Point Method |
| Loss on Drying | ≤ 0.5% | 0.09% | % | 105°C Constant Weight Method |
| Residue on Ignition | ≤ 0.1% | 0.02% | % | Gravimetric Method |
| Heavy Metals (Pb) | ≤ 10 ppm | 0.5 ppm | ppm | Atomic Absorption Spectrometry (AAS) |
| Heavy Metals (As) | ≤ 2 ppm | 0.1 ppm | ppm | Atomic Fluorescence Spectrometry (AFS) |
| Related Substances (Total) | ≤ 1.0% | 0.21% | % | High Performance Liquid Chromatography |
| Related Substances (Single) | ≤ 0.3% | 0.05% | % | High Performance Liquid Chromatography |
| Optical Rotation (c=1, Dioxane) | +72° to +80° | +76.3° | ° | Polarimetry |
| Fluoride Content | 4.5-5.5% | 4.8% | % | Ion Chromatography |
| Solubility Test | Soluble in ethanol, chloroform; slightly soluble in water | Complies | - | Solubility Test Method |

Certification This batch of product has been tested in accordance with the relevant industrial standards for Dexamethasone and meets all specified requirements. It is qualified for use.

Issue Date: 22 FEB 2026