



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

### Product Information

Item	Details
Product Name	Thyroxine
Product Number	T4-20260223
Batch Number	T4-SH2026022301
Brand	SIGALD
CAS Number	51-48-9
MDL Number	MFCD00002536
Formula	C <sub>15</sub> H <sub>11</sub> I <sub>4</sub> NO <sub>4</sub>
Molecular Weight	776.87 g/mol
Form	White Crystalline Powder
Quality Release Date	23 FEB 2026

### Test Results

Test	Specification (Biopharmaceutical Grade)	Result	Unit	Test Method
Appearance	White to off-white crystalline powder	White crystalline powder	-	Visual Inspection
Purity (HPLC)	≥ 98.5%	99.4%	%	High Performance Liquid Chromatography
Assay (Titration)	≥ 98.0%	99.1%	%	Acid-Base Titration
Melting Point	230-235°C (decomp.)	232°C (decomp.)	°C	Capillary Melting Point Method
Moisture Content (Karl Fischer)	≤ 0.5%	0.2%	%	Karl Fischer Titration
Heavy Metals (Pb)	≤ 5 ppm	0.3 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Optical Rotation ([α] <sub>20</sub> <sup>D</sup> , 0.1M NaOH)	+18 to +22°	+20.1°	°	Polarimetry
Solubility	Soluble in 0.1M NaOH/dimethyl sulfoxide; insoluble in water	Conforms	-	Solubility Test (USP Method)
Residue on Ignition	≤ 0.1%	0.02%	%	Gravimetric Method

### Certification

This batch of Thyroxine has been tested in accordance with USP/EP biopharmaceutical industry standards and meets all specified requirements for purity, assay and quality control limits. It is qualified for biopharmaceutical R&D, in vitro diagnostics and thyroid-related research applications.

**Issue Date: 23 FEB 2026**