

## Certificate of Analysis

Date of Testing: 2023-10-12 18:19:31  
Date of Next Testing: 2026-10-11 18:19:31  
Product Name: (+)-Catechin hydrate  
CAS Number: 225937-10-0  
Specifications & Purity:  $\geq 96.0\%$  (sum of enantiomers, HPLC)  
Lot #: J2310405  
SKU #: C464218  
Analysis: 279064  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(HPLC area)	96-100 (%)	98.71 %
Loss on drying	0-8 (%)	2.10 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	24-28 (°)	24.02°
Appearance(C464218)	White To Light Beige To Light Brown Powder	White to Light Beige to Light Brown Powder
Solubility (0.5g in 10ml Ethanol, Hot, Yellow To Very Dark Yellow And Light Brown-Yellow To Very Dark Brown-Yellow Clear To Very Hazy)	pass	Pass
LC-MS for identification	Conforms	Conforms
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager