Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs

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Specification

Retinoic Acid USP/FDA

Catalog Number: RA1002
CAS Number: 302-79-4
Synonym(s): Tretinoin
Molecular Formula: $C_{20}H_{28}O_2$
Molecular Weight: 300.44
Storage: 2ºC – 8ºC, Protect from light and store under inert gas
Retest Period: Three years from date of manufacture.

Test	Specification
Appearance	Yellow to light-orange crystalline powder
Assay	97.0 – 103.0%
Identification A (FTIR)	To match reference spectra
Identification B (UV)	Maximum absorption at 352nm
Moisture (LOD)	≤ 0.5%
Residue on Ignition	≤ 0.1%
Heavy Metals	≤ 20ppm
Limit of Isotretinoin	≤ 5.0%
Residual Solvents	
Ethanol	≤ 5,000ppm
Ethyl Acetate	≤ 5,000ppm
Isopropyl Alcohol	≤ 5,000ppm
Tert-Butyl Ether	≤ 5,000ppm
Toluene	≤ 890ppm
This product is manufactured in an FDA-approved facility and meets the specifications for USP40.	

Approved: Date: February 15, 2018

John Grubb

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For research or further manufacturing. Not for drug, clinical or a food use in humans or animals.