

## Gojira Fine Chemicals, LLC

**Quality Products & Services Meeting Customer Needs** 

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## **Certificate of Analysis**

## **Retinoic Acid USP**

Catalog Number:RA1001Lot Number:0629703CAS Number:302-79-4Synonym(s):TretinoinMolecular Formula:C20H28O2Molecular Weight:300.44

**Storage:**  $2^{\circ}\text{C} - 8^{\circ}\text{C}$ , Protect from light and store under inert gas

Date of Manufacture: May 2, 2017 Retest Date: May 1, 2020

Test	Specification	Result
Appearance	Yellow to light-orange crystalline powder	Conforms
Assay	98.0 – 102.0%	99.9%
Identification A (FTIR)	To match reference spectra	Conforms
Identification B	Maximum absorption at 352nm	Conforms
(Absorbance)		
Moisture (LOD)	≤ 0.5%	0.1%
Residue on Ignition	≤ 0.1%	0.04%
Heavy Metals	≤ 20ppm	< 20ppm
Limit of Isotretinoin	≤ 5.0%	0.06%
Residual Solvents		
Ethanol	≤ 3,000ppm	600ppm
Ethyl Acetate	≤ 5,000ppm	260ppm
Isopropanol	≤ 5,000ppm	45ppm
This lot meets the specifications for USP40.		

Date: June 29, 2017

Approved by:

John Grubb, PhD

Gojira Fine Chemicals, LLC

**Quality Manager** 

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