



## Certificate of Analysis

### Indomethacin USP

**Catalog Number:** IN1004  
**Lot Number:** 0304003  
**CAS Number:** 53-86-1  
**Synonym(s):** 1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-3-indoleacetic acid  
**Molecular Formula:** C<sub>19</sub>H<sub>16</sub>ClNO<sub>4</sub>  
**Molecular Weight:** 357.79  
**Storage:** 15 - 30°C  
**Date of Manufacture:** December 19, 2019  
**Retest Date:** December 18, 2023

Test	Specification	Result*
Appearance	White to light yellow crystalline powder.	Conforms
Assay	98.0 - 102.0%	100.0%
Identification (FTIR)	To match reference spectra	Conforms
Solubility	Practically insoluble in water, sparingly soluble in ethanol (96%)	Conforms
Melting Point	158° – 162°C	160° - 161°C
Particle Size	400mesh	D (90) 50.117µm
Loss on Drying	≤ 0.40%	0.09%
Sulphated Ash	≤ 0.10%	0.07%
<b>Organic Impurities</b>		
Unspecified Impurity	≤ 0.10%	0.03%
Total Impurity	≤ 0.3%	0.09%
<b>Microbial Limits</b>		
Total Plate Count	≤ 1000cfu/g	< 10cfu/g
Mold and Yeast	≤ 100cfu/g	< 10cfu/g
<i>E. coli</i>	Negative	Not detected

Approved by:

John Grubb, PhD  
Gojira Fine Chemicals, LLC  
Quality Manager  
Tel: 440-539-7033 Fax: 888-211-5523  
[john@gojirafc.com](mailto:john@gojirafc.com)

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