

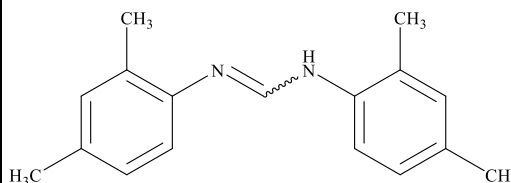
# Certificate of Analysis

Certificate No.: 20200617008

Date: June 17, 2020

Retest date: June 11, 2023

<b>Compound Name:</b> Amitraz Impurity 2	
<b>Synonyms:</b>	<i>N,N'</i> -bis(2,4-dimethylphenyl)formimidamide
<b>TLC Catalogue Number:</b>	A-285003
<b>CAS Number:</b>	16596-04-6
<b>Molecular Weight:</b>	252.36
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>20</sub> N <sub>2</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	3897-033A4
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	Methanol, DMSO, DMF



Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
<b>IR</b>	Conforms to structure	<b>Conforms</b>
<b>MS</b>	Conforms to structure	<b>Conforms</b>
<b><sup>1</sup>H NMR</b>	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.4%</b>
<b>Impurity (HPLC)</b>	RT 13.17, 0.42%	
<b>Water Content (KF)</b>	N/A	<b>0.5%</b>
<b>Residual Solvents (NMR)</b>	0.1% ethyl acetate	
<b>Assay (%)</b>	Not less than 90.0%	<b>98.8%</b>
<b>Recommendation:</b>	<b>Released.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

**Attachments:** HPLC, IR, MS and NMR spectra.