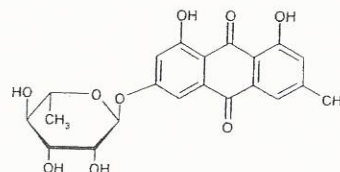


**INDOFINE Chemical Company, Inc.**

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**Certificate Of Analysis****020435****FRANGULIN A****Lot No.: 18042904****IDENTIFICATION**

CAS number	[521-62-0]
Chemical family	Quinone-Antraquinone-Xanthone
Molecular formula	C <sub>21</sub> H <sub>20</sub> O <sub>9</sub>
Molecular weight	416.38

**ANALYSIS**

<b>TEST</b>	<b>SPECIFICATION</b> <i>(April 2009, version 01)</i>	<b>RESULT</b>
Appearance	Orange powder	Conform
Melting point	226-236°C	234-235°C
UV/Visible spectrum $\lambda_{max}$ ( $\pm 2$ nm)	263, 287, 302sh, 433, 455sh nm in ethanol + 0.25% dimethylsulfoxide	Conform
TLC	Silicagel Ethyl acetate/methanol/water, (100/12/5, V/V/V) U.V.	Main spot
Assay (HPLC)*	$\geq 95\%$	Conform

\*Assay by an HPLC method

*The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.*

**STORAGE**

Store in a dry and dark place. Place in a desiccator under vacuum before use.

**Prepared by:**

Ramesh Mandadi

Ramesh Mandadi

Director of Operations

**Reviewed and approved by:**

Sujata Moton

S. Moton

VP