



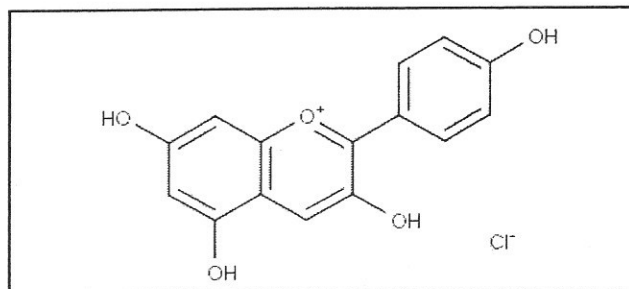
# INDOFINE Chemical Company, Inc.

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## Certificate Of Analysis

**020912S**      **PELARGONIDIN CHLORIDE**      **Lot No.: 18051837**

CAS RN	134-04-3
MOL FORMULA	C <sub>15</sub> H <sub>11</sub> O <sub>5</sub> Cl
MOL WEIGHT	306,70



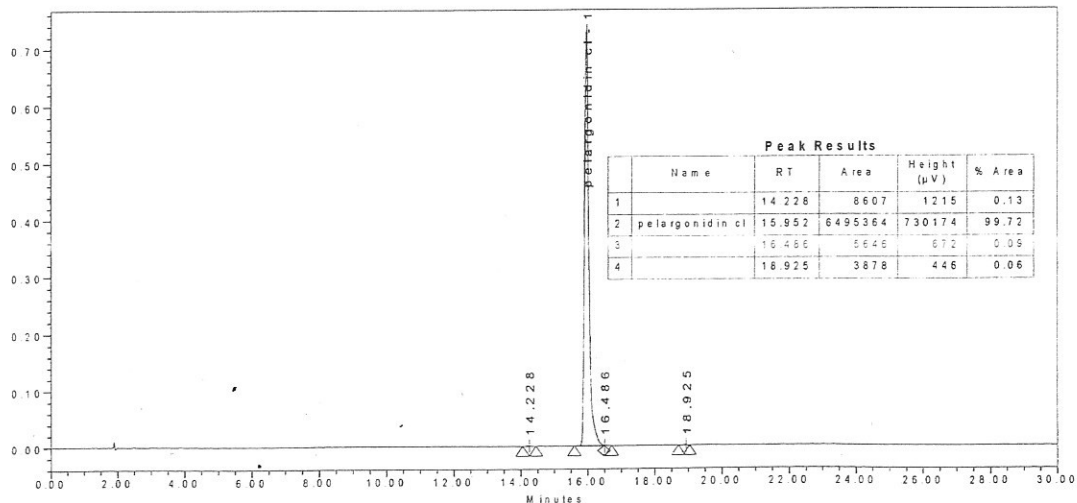
TEST	METHOD	UNIT	SPECIFICATION	RESULT
Appearance	Visual		Dark powder	Conform
Potency	UV		$\epsilon$ (523 nm, MeOH+0,1% HCl) = 32 400 +/- 1500	32480
Water content	KF	% w/w		11,4
Residual solvents	GC-HS	% w/w		0,7
Inorganics	ICP-MS	% w/w		0,4
Purity	HPLC	% area	$\geq 97,0$	99,7
<b>Assay</b>	<b>Calculated (*)</b>	<b>% w/w</b>		<b>87,2</b>

(\*) Assay = Purity by HPLC x (100 - %water - %solvents - %inorganics)

### CHROMATOGRAPHIC PURITY / HPLC

Column : Atlantis dC18 - 4,6x150 mm - 3  $\mu$ m  
 Mobile phase : Gradient: B from 5% to 60% in 20 min then 60% to 100% in 5 min then 5 min isocratic 100%  
 A = Water + 10% HCOOH / B = MeOH  
 Detection : UV 515 nm

Temperature : 30°C  
 Flow rate : 1 ml/min  
 Injection volume : 5  $\mu$ l  
 Injection solvent : MeOH + 0,1% HCl



LONG TERM STORAGE : Below -15°C in a dry and dark place

TRANSPORT CONDITIONS : Ambient temperature