



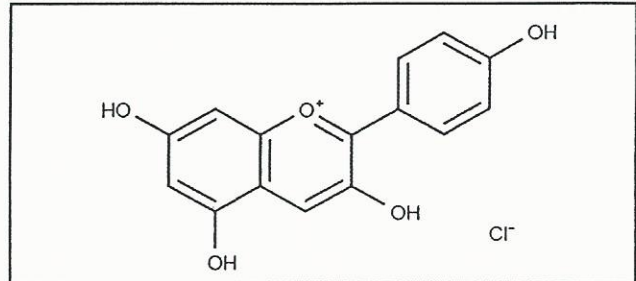
INDOFINE Chemical Company, Inc.

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Certificate Of Analysis

020912S PELARGONIDIN CHLORIDE Lot No.: 17021635

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

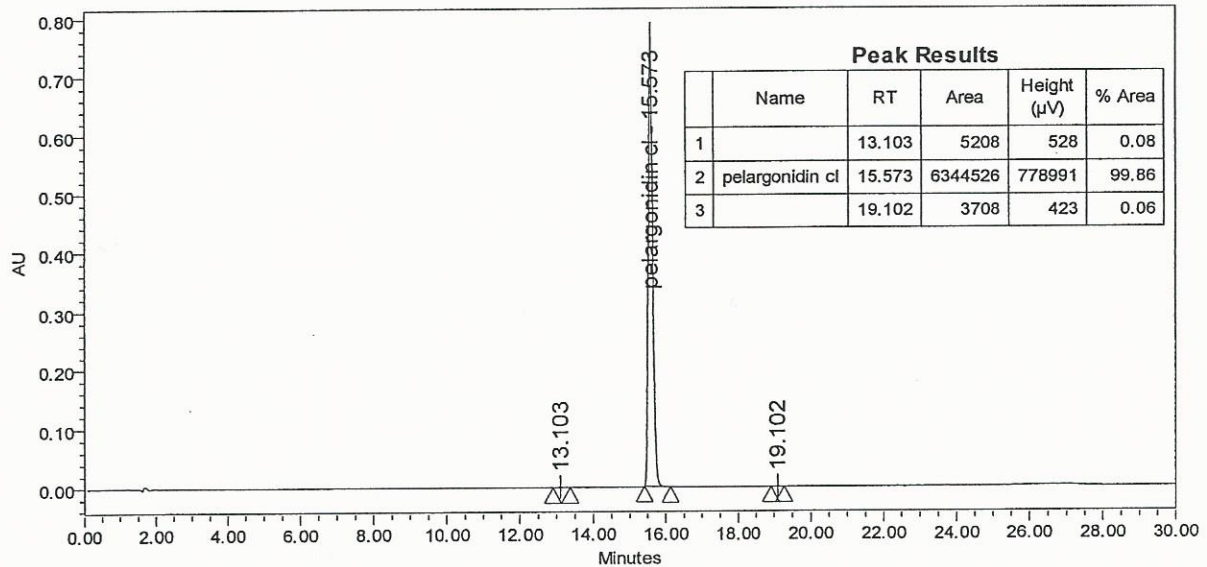


TEST	METHOD	UNIT	SPECIFICATION	RESULT
Appearance	Visual		Dark powder	Conform
Potency	UV		ϵ (523 nm, MeOH+0,1% HCl) = 32 400 +/- 1500	33 730
Water content	KF	% w/w		9,6
Residual solvents	GC-HS	% w/w		1,9
Inorganics	ICP-MS	% w/w		0,1
Purity	HPLC	% area	$\geq 97,0$	99,9
Assay	Calculated (*)	% w/w		88,3

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

CHROMATOGRAPHIC PURITY / HPLC

Temperature: 30°C
 Column: Symmetry Shield RP18 - 4,6x150 mm - 3,5 μ m Flow rate: 1 ml/min
 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 Injection volume: 5 μ l
 Detection: UV 515 nm Injection solvent: MeOH + 0,1% HCl



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