



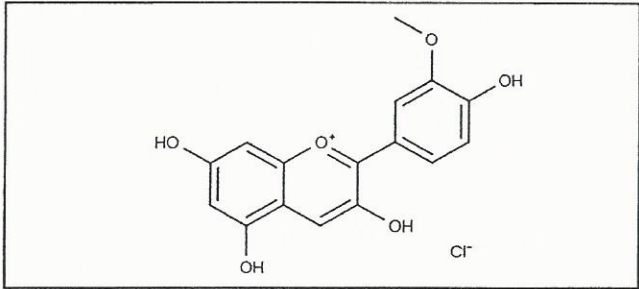
INDOFINE Chemical Company, Inc.

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Certificate Of Analysis

020906S PEONIDIN CHLORIDE Lot No.: 17052021

CAS RN	134-01-0
MOL FORMULA	C ₁₆ H ₁₃ O ₆ Cl
MOL WEIGHT	336,73



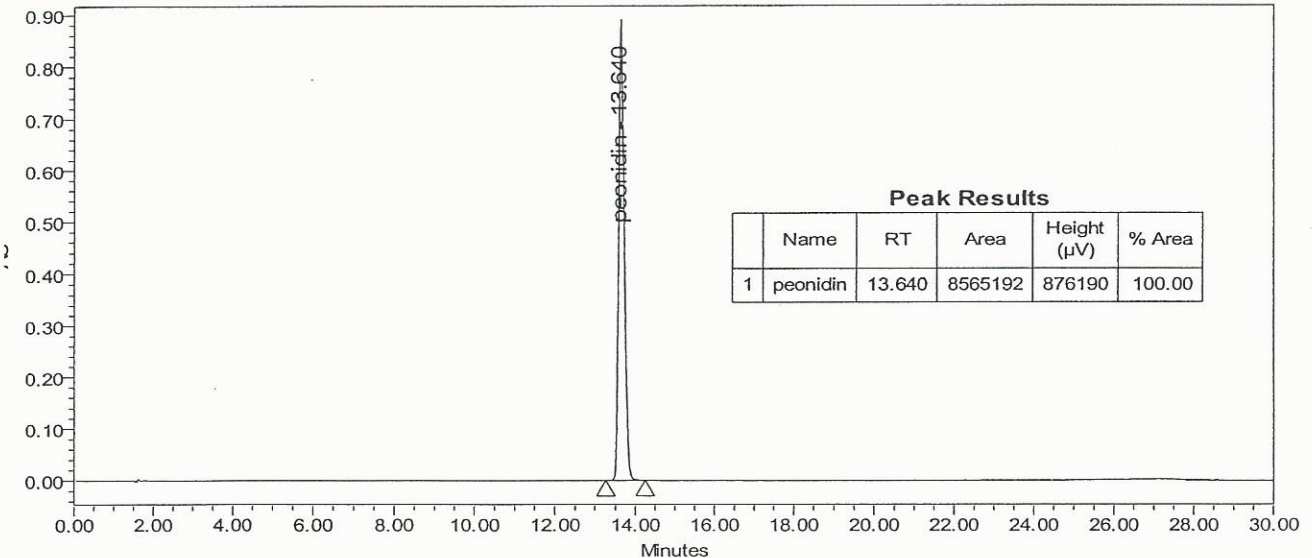
TEST	METHOD	UNIT	SPECIFICATION	RESULT
Appearance	Visual		Dark powder	Conform
Potency	UV		ϵ (537 nm, MeOH+0,1% HCl) = 37 000 +/- 1900	38860
Water content	KF	% w/w		8,3
Residual solvents	GC-HS	% w/w		1,1
Inorganics	ICP-MS	% w/w		0,1
Purity	HPLC	% area	$\geq 97,0$	100
Assay	Calculated (*)	% w/w		90,5

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

CHROMATOGRAPHIC PURITY / HPLC

Column : Novapak C18 - 3,9x150 mm - 4 μ 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 525 nm

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



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