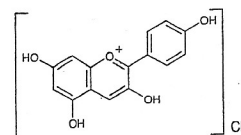




INDOFINE Chemical Company, Inc.

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HPLC

Lot No.: 13040530

PELARGONIDIN CHLORIDE

020912S

IDENTIFICATION

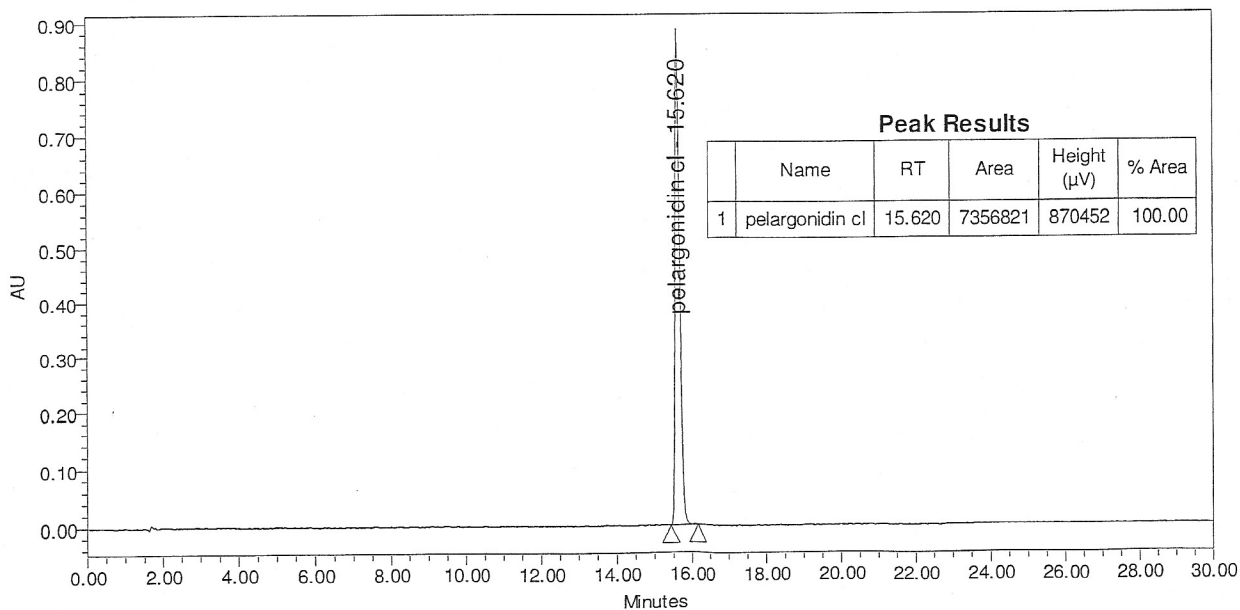
| | |
|-------------------|---|
| CAS number | [134-04-3] |
| Chemical family | Anthocyanins |
| Synonym | 3,4',5,7-Tetrahydroxyflavylium chloride |
| Molecular formula | C ₁₅ H ₁₁ O ₅ Cl |
| Molecular weight | 306.7 |

CERTIFICATE OF ANALYSIS

| | |
|---------------------------|--|
| Appearance | powder |
| Thin layer chromatography | support: Silicagel |
| | solvent: Ethyl acetate / formic acid / water (50/3/2, V/V/V) |
| | detection: Visible |
| Absorption maxima | 523 nm in methanol + 0.1% HCl |
| Storage | Store at room temperature in a dry and dark place. Place in a desiccator under vacuum before use. |

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

| | |
|----------------|---|
| Column | Symmetry Shield RP18® (4.6 x 150 mm), particle size 3.5 µm |
| Solvent | 20 mn linear gradient from 5 to 60% B and 5 mn linear gradient from 60 to 100% B then 5 mn isocratic 100% B A=water + 10% formic acid B=methanol |
| Flow rate | 1 ml/min |
| Detector | UV visible 515 nm |
| Sample solvent | Methanol + 0.1% HCl |



Assay by an HPLC method.

Date of last QC-recheck June 2012
Date of retest June 2016

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