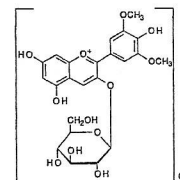




INDOFINE Chemical Company, Inc.

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HPLC Lot No.: 14051428

OENIN CHLORIDE

020911S

IDENTIFICATION

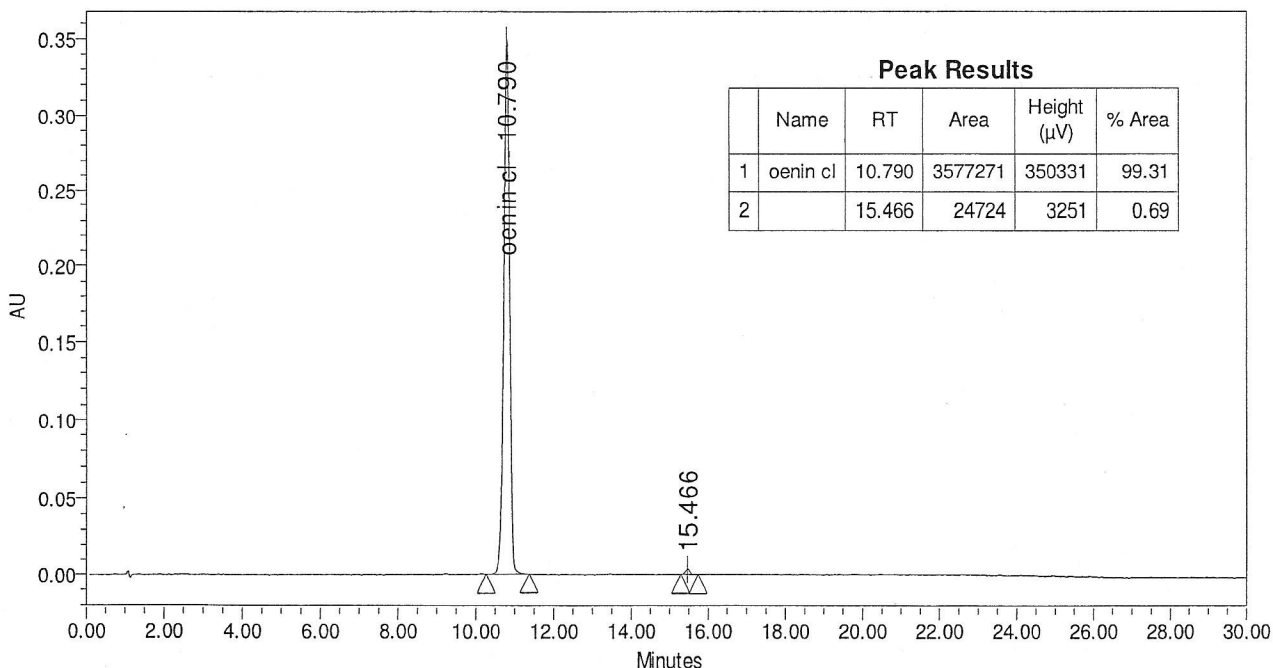
CAS number	[7228-78-6]
Chemical family	Anthocyanins
Synonym	Malvidin-3-O-glucoside chloride
Molecular formula	C ₂₃ H ₂₅ O ₁₂ Cl
Molecular weight	528.87

CERTIFICATE OF ANALYSIS

Appearance	Red-brown powder
Thin layer chromatography	support Cellulose solvent Acetic acid/Water/Hydrochloric acid (70/23/7, V/V/V) detection Visible
Absorption maxima	538 nm in methanol + 0.1% HCl
Storage	Store at <-15°C in a dry and dark place. Place in a desiccator under vacuum before use

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

Column	Nova pak C18® (3.9 x 150 mm), particle size 4 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/mn
Detector	UV visible 530 nm
Sample solvent	Methanol + 0.1% HCl



Assay by an HPLC method.

Date of last QC-recheck *October 2013*
Date of retest *October 2017*

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