



INDOFINE Chemical Company, Inc.

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CERTIFICATE OF ANALYSIS

Cat No.: 020909S

Product:

CYANIDIN CHLORIDE with HPLC
(3,3',4',5,7-Pentahydroxyflavylium chloride)

Cas Number:

[528-58-5]

Chemical Family:

Anthocyanins

Lot Number:

12050733

Chemical Formula:

$C_{15}H_{11}O_6Cl$

Molecular Weight:

322.7

Appearance:

Powder

Thin layer chromatography:

Support: Cellulose

Solvent: Acetic acid/water/Hydrochloric acid
(70/23/7: V/V/V)

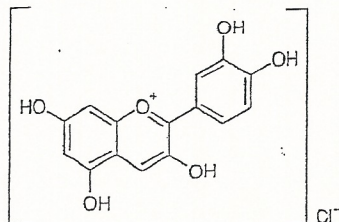
Detection: Visible

Storage:

Store at room temperature in a dry, dark place.
Place in a desiccator under vacuum for 48 hours before use

Purity:

98.34%

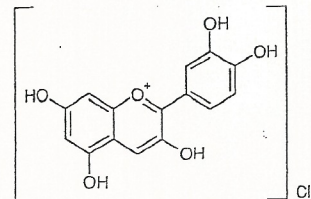


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**HPLC****Batch: 33****CYANIDIN CHLORIDE****020909S****IDENTIFICATION**

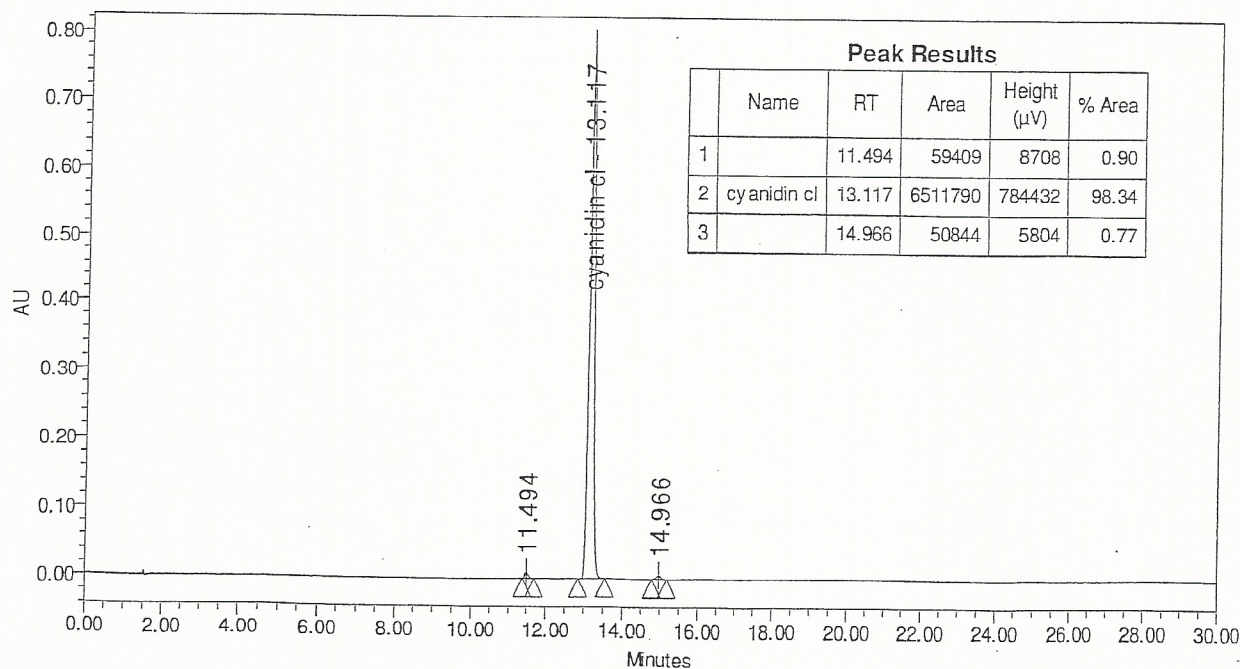
CAS number	[528-58-5]
Chemical family	Anthocyanins
Synonym	3,3',4',5,7-Pentahydroxyflavylium chloride
Molecular formula	C ₁₅ H ₁₁ O ₆ Cl
Molecular weight	322.7

CERTIFICATE OF ANALYSIS

Appearance	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 room temperature in a dry and dark place. Place in a desiccator under vacuum for 48 hours before use

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

Column	Symmetry Shield RP18® (4.6 x 150 mm), particle size 3.5 µm
Solvent	20 mm linear gradient from 5 to 60% B and 5 mm linear gradient from 60 to 100% B then 5 mm , isocratic 100% B A=water + 10% formic acid B=methanol
Flow rate	1 ml/min
Detector	UV visible 528 nm
Sample solvent	Methanol + 0.1% HCl



Assay by an HPLC method.

Date of last QC-recheck : May 2011

Date of retest : May 2015

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