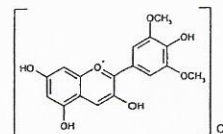




INDOFINE Chemical Company, Inc.

121 Stryker Lane, Building 30
Hillsborough, NJ 08844 USA
Phone: (908) 359-6778; Fax: (908) 359-1179



HPLC ANALYSIS

020913S MALVIDIN CHLORIDE Lot No.: 15080129

IDENTIFICATION

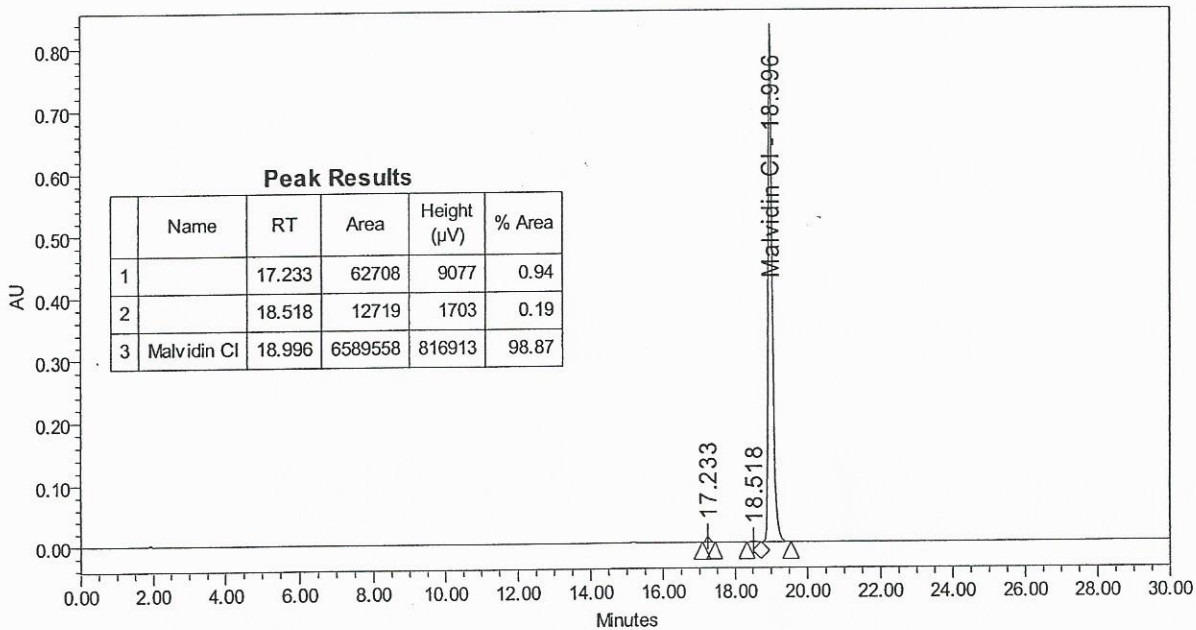
CAS number	[643-84-5]
Chemical family	Anthocyanins
Molecular formula	C ₁₇ H ₁₅ O ₇ Cl
Molecular weight	366.75

CERTIFICATE OF ANALYSIS

Appearance	Powder
Thin layer chromatography	support Cellulose
	solvent Hydrochloric acid / acetic acid / water (7/70/23, V/V/V)
	detection Visible
Absorption maxima	547 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	Atlantis dC18® (4.6 x 150 mm), particle size 3 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 540 nm
Sample solvent	Methanol + 0.1% HCl



Assay by an HPLC method.

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