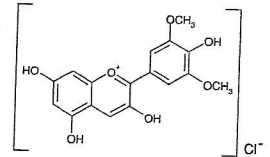




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**HPLC Lot No.: 14030628**

**MALVIDIN CHLORIDE 020913S**

**IDENTIFICATION**

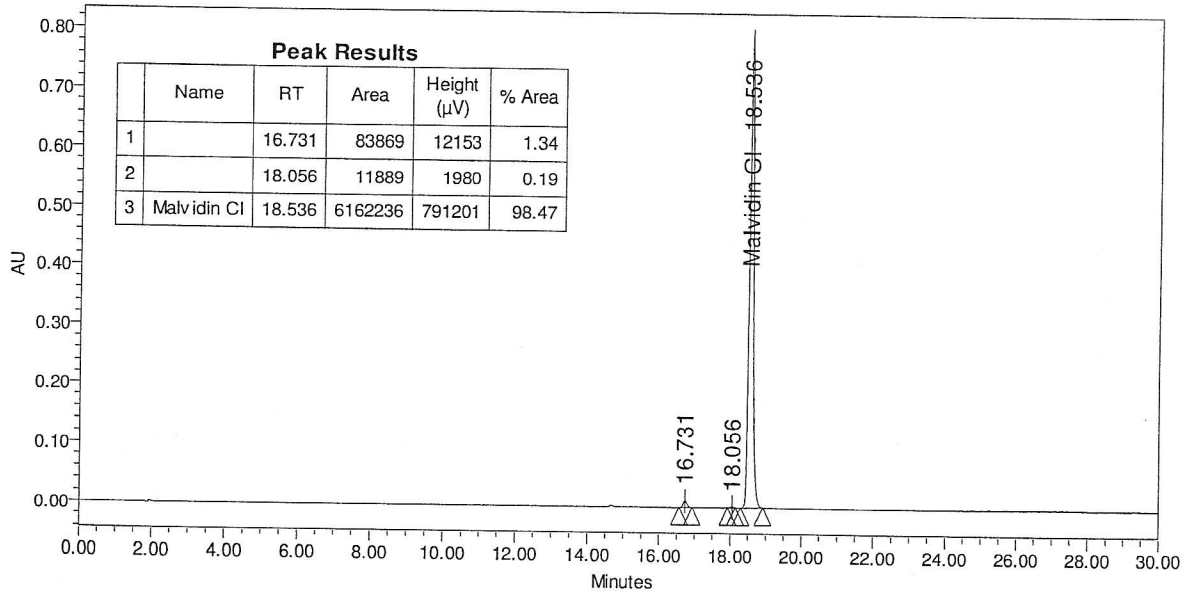
CAS number [643-84-5]  
Chemical family Anthocyanins  
Molecular formula C<sub>17</sub>H<sub>15</sub>O<sub>7</sub>Cl  
Molecular weight 366.75

**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.  
Date of last QC-recheck May 2013  
Date of retest May 2017

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