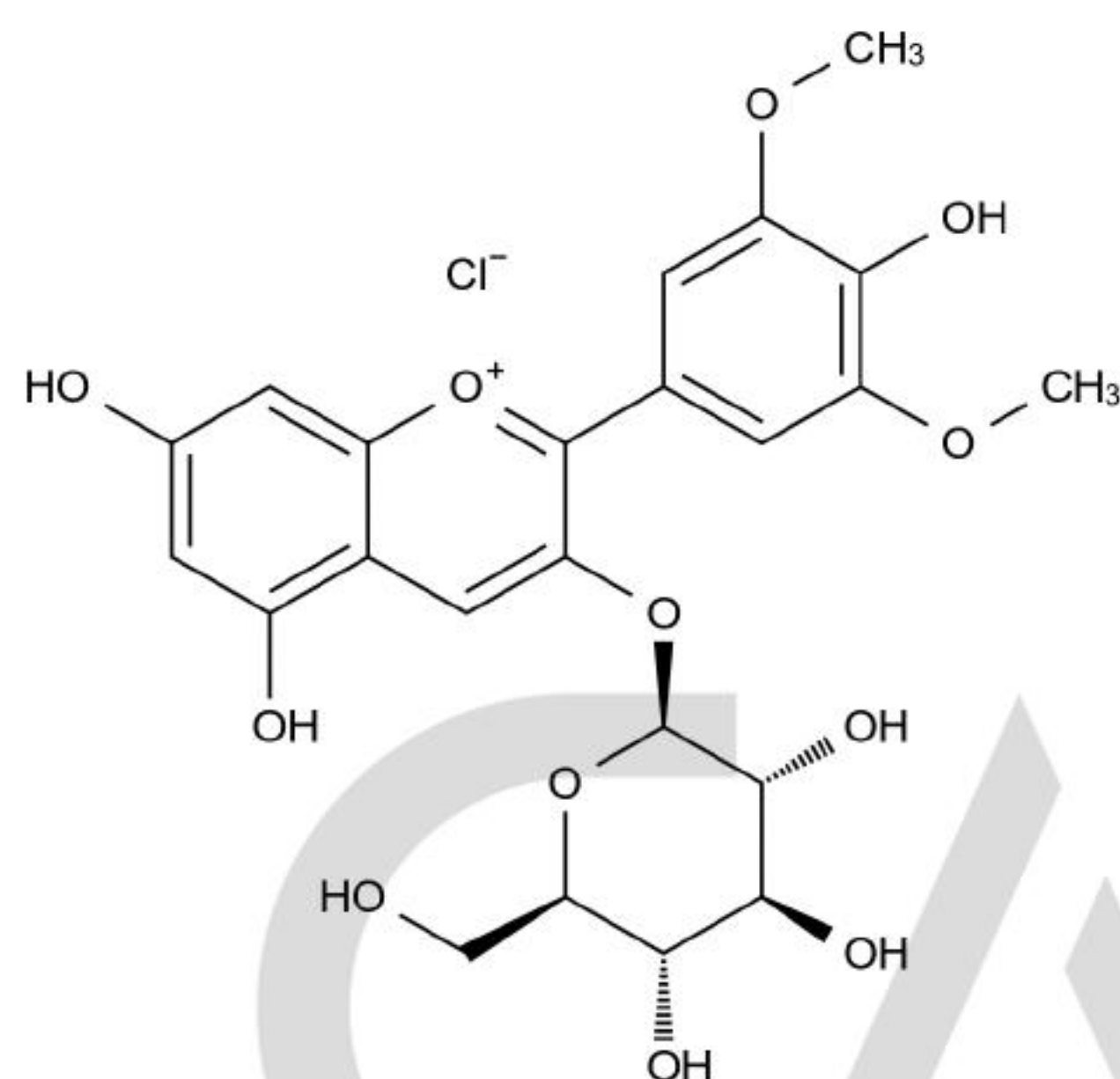


Certificate of Analysis

Reference Material & Standard

Product Name:	Malvidin-3-O-Glucoside Chloride	Catalogue Number:	CCPE901369
Synonyms:	N/A	Lot Number:	1211-RE-0052
CAS Number:	7228-78-6	Expiry Date:	Dec 07, 2025
Molecular Formula:	C ₂₃ H ₂₅ O ₁₂ Cl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	493.44 35.45		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Solid
Identification	HNMR	Confirmed
Purity	HPLC	99.2%
Uncertainty		±2.0%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Aporoved by General Manager:

David

Date: Dec 13, 2023

Date: Dec 14, 2023

Date: Dec 14, 2023

