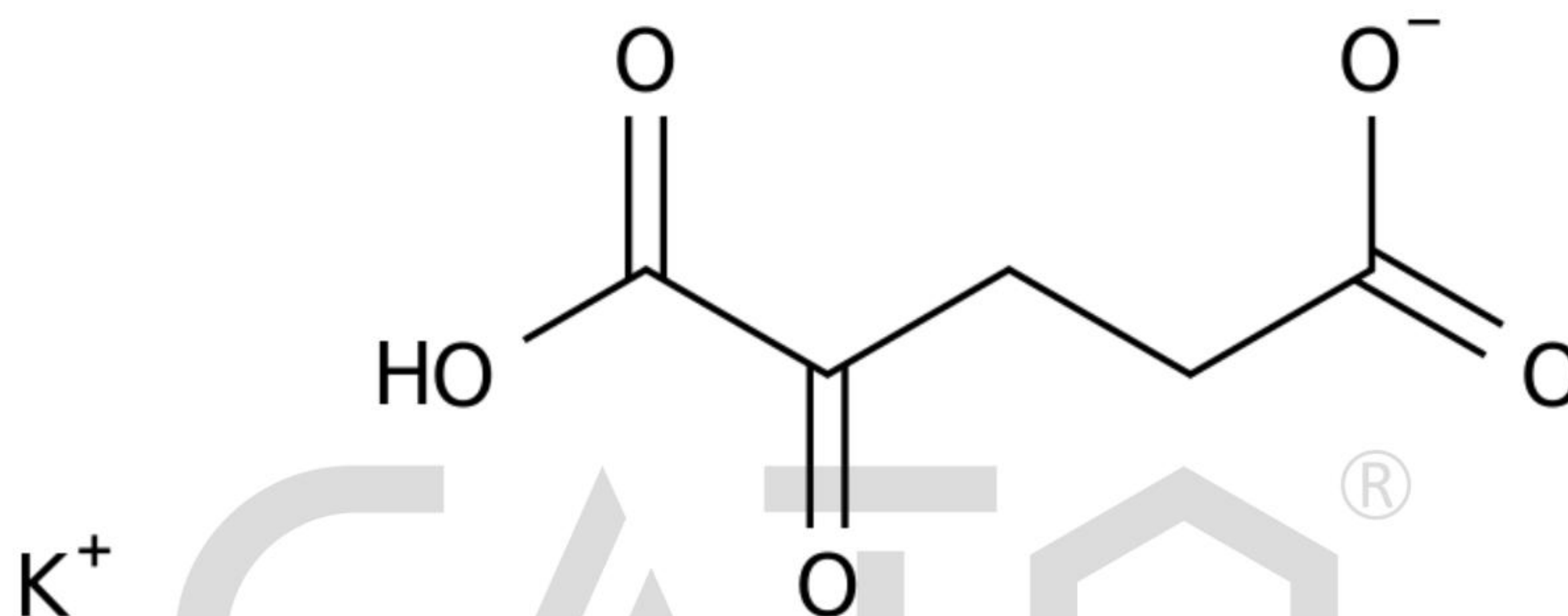


Certificate of Analysis

Reference Material

Product Name:	alpha-Ketoglutaric acid potassium salt	Catalogue Number:	CCHM703771
Chemical Name:	N/A	Lot Number:	0415-RD-0079
CAS Number:	997-43-3	Expiry Date:	Apr 18, 2026
Molecular Formula:	C5H5O5 K	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	145.09 39.10		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Water Content	Karl Fischer	0.4238%
Assay		99.6%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula:

Assay (%) = (100% - Water Content) * Purity HPLC (%) / 100%

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

2. 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:

Delia

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Apr 19, 2022

Date: Apr 20, 2022

Date: Apr 20, 2022

