

Certificate of Analysis

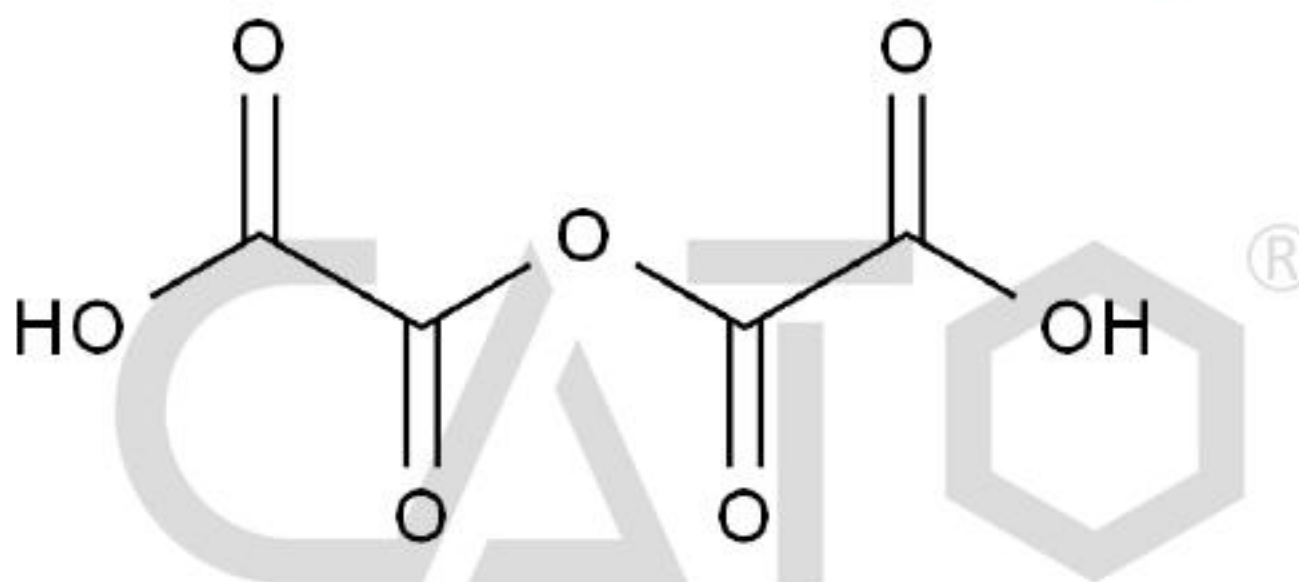
Reference Material & Standard

Product Name:	Tiotropium Impurity 28	Catalogue Number:	C4X-176428
Synonyms:	2,2'-Oxybis(2-oxoacetic acid)	Lot Number:	0619-SA-7489
CAS Number:	59516-66-4	Expiry Date:	Jun 18, 27
Molecular Formula:	C ₄ H ₂ O ₇	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	162.05		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	96.809%

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Jun 19, 23

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Page 1 of 6



Directions:

- 1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
- 2. Minimum sample size: 1mg is recommended as the minimum sample size.*
- 3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
- 4. Instructions for handling and correct use: Handling in a well-ventilated place.*

Document Version:

Revision No.	Date	Reason for Revision
01	Jun 19, 23	First release.

