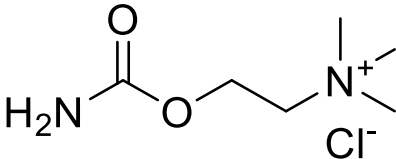


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
317367	Carbachol	C23M04C21

Chemical name	
2-carbamoyloxyethyl(trimethyl)azanium;chloride	
Synonyms	
Carbastat, Carboptic, Isopto Carbachol, Miostat, Carbamylcholine	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 317367 Name: Carbachol CAS#: 51-83-2 Lot#: C23M04C21 Chemical Formula: C ₆ H ₁₅ ClN ₂ O ₂ Exact Mass: 182.08221 Molecular Weight: 182.65

Analysis item	Specifications / Results
Appearance	White to off white solid powder
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>98.0%
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 3 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE