

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-09 14:31:52
 Date of Next Testing: 2029-05-08 14:31:52
 Product Name: **Tubocurarine Chloride Pentahydrate**
 CAS Number: 6989-98-6
 Specifications & Purity: $\geq 98\%$
 Lot #: E2506302
 SKU #: **T161999**
 Version: **3**
 Analysis #: **484840**
 Storage Temperature: Store at -20°C , Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	100.00000 %
Water by Karl Fischer	10.0-13.0 (%)	10.86900 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in H}_2\text{O})$	190-200 ($^{\circ}$)	197.40000 $^{\circ}$
Carbon by Elemental Analysis	55.3-58.7 (%)	57.77300 %
Appearance(T161999)	White to Light yellow to Light orange powder to crystal	White to Light yellow to Light orange powder to crystal
NMR Spectrum ^1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager