

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-09 14:29:17
 Date of Next Testing: 2029-05-08 14:29:17
 Product Name: **Tubocurarine Chloride Pentahydrate**
 CAS Number: 6989-98-6
 Specifications & Purity: $\geq 98\%$
 Lot #: E2506305
 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