Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
329670	Naloxone HCl	A8T09K21

Chemical name		
(4R,4aS,7aR,12bS)-3-allyl-4a,9-dihydroxy-2,3,4,4a,5,6-hexahydro-1H-4,12-		
methanobenzofuro[3,2-e]isoquinolin-7(7aH)-or	ne hydrochloride	
Syno	onyms	
Naloxone HCl; EN-15304; EN15304; EN 15304; NIH7890; Naloxone hydrochloride;		
Narcan; Narcanti; Nalonee		
Chemical structure	CAS# and Theoretical analysis	
Н	MedKoo Cat#: 329670	
HO_N	Name: Naloxone HCl	
	CAS#: 357-08-4 (HCl)	
HO	Lot#:A8T09K21	
H-CI	Chemical Formula: C ₁₉ H ₂₂ ClNO ₄	
l " Ö	Molecular Weight: 363.84	

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)	>99.0%
Solubility	Soluble in DMSO
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 5 years if properly stored.

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