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## CERTIFICATE OF ANALYSIS

Analysis Date:

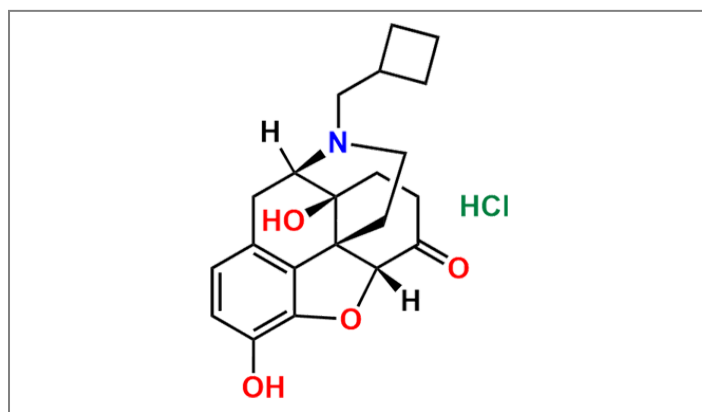
Re-test Date:

**Product Name: 6-Keto Nalbuphine HCl**

### Identification:

Chemical Name: (4R,4aS,7aR,12bS)-3-(cyclobutylmethyl)-4a,9-dihydroxy-2,3,4,4a,5,6-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinolin-7(7aH)-one hydrochloride

Synonyms : NA  
CAS Number : 16676-34-9  
CAT Number : CP-N90006  
Molecular Formula : C<sub>21</sub>H<sub>25</sub>NO<sub>4</sub> : HCl  
Molecular Weight : 355.4 : 36.46



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**



Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**



Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.