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CERTIFICATE OF ANALYSIS

Analysis Date:

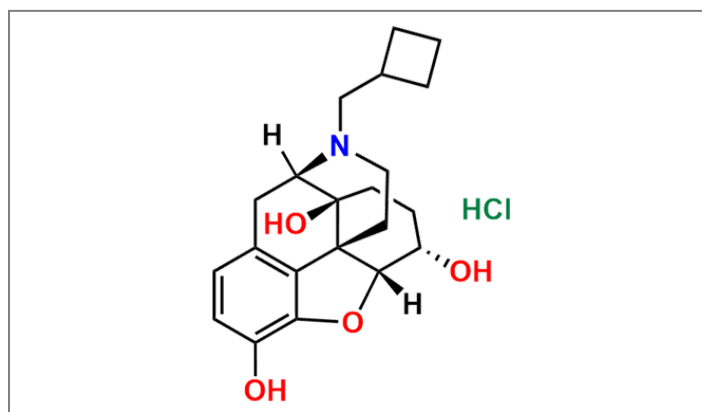
Re-test Date:

Product Name: Nalbuphine Hydrochloride (In House Standard)

Identification:

Chemical Name: (4R,4aS,7S,7aR,12bS)-3-(cyclobutylmethyl)-1,2,3,4,5,6,7,7a-octahydro-4aH-4,12-methanobenzofuro[3,2-e]isoquinoline-4a,7,9-triol hydrochloride

Synonyms : NA
CAS Number : 23277-43-2
CAT Number : CP-N90001
Molecular Formula : C₂₁H₂₇NO₄ :HCl
Molecular Weight : 357.5 : 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	>98%
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.