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## CERTIFICATE OF ANALYSIS

Analysis Date:

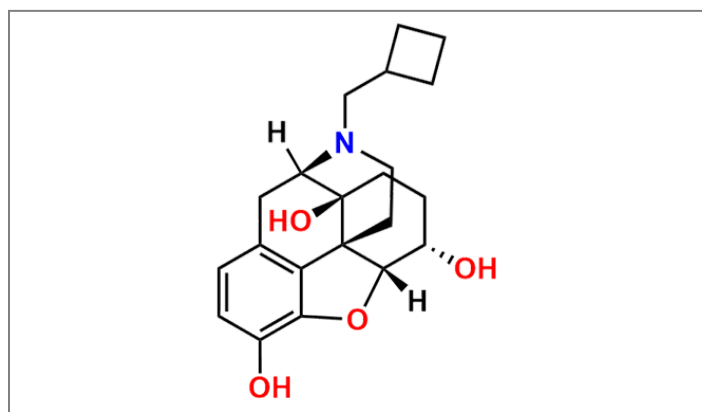
Re-test Date:

**Product Name: Nalbuphine (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

Synonyms : NA  
CAS Number : 20594-83-6  
CAT Number : CP-N90000  
Molecular Formula : C<sub>21</sub>H<sub>27</sub>NO<sub>4</sub>  
Molecular Weight : 357.45



### 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.