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CERTIFICATE OF ANALYSIS

Analysis Date:

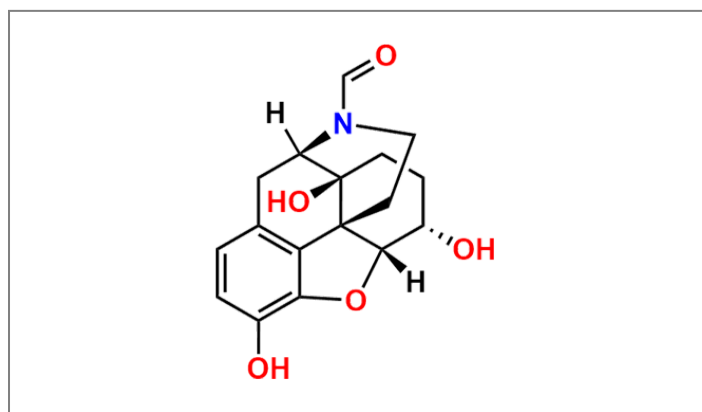
Re-test Date:

Product Name: Nalbuphine Impurity 1

Identification:

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

Synonyms : NA
CAS Number : 2771387-27-8
CAT Number : CP-N90004
Molecular Formula : C₁₇H₁₉NO₅
Molecular Weight : 317.3



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.