

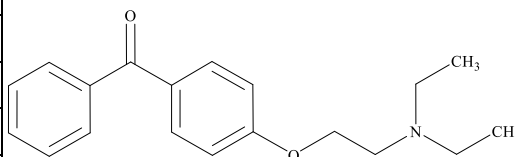
Certificate of Analysis

Certificate No.: 20200604024

Date: June 4, 2020

Retest date: June 1, 2023

Compound Name: Clomiphene Impurity 2	
Synonyms:	(4-(2-(diethylamino)ethoxy)phenyl)(phenyl)methanone
TLC Catalogue Number:	C-8211
CAS Number:	796-77-0
Molecular Weight:	297.40
Molecular Formula:	C ₁₉ H ₂₃ NO ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3851-081A1
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, DMF



Test Description	Specifications	Results
Visual Description	Pale brown liquid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.7%
Impurity (HPLC)	RT 13.23, 0.17%	
Water Content (KF)	N/A	1.2%
Residual Solvents (NMR)	0.6% methanol	
Assay (%)	Not less than 90.0%	97.9%
Recommendation:	Released.	

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

Attachments: HPLC, IR, MS and NMR spectra.