



Certificate of Analysis

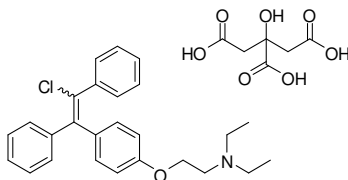
Axon Catalogue ID: 3650 **Batch Number:** 1

Product Name: Clomiphene citrate

Alternative Name(s): Clomifene; Clomid

IUPAC Name: 2-(4-(2-Chloro-1,2-diphenylvinyl)phenoxy)-N,N-diethylethanamine 2-hydroxypropane-1,2,3-tricarboxylate

Structure:



Amount:

CAS number(s): 911-45-5 (parent), 50-41-9 (citrate (1:1))

Molecular Formula: C₂₆H₂₈ClNO.C₆H₈O₇ **Molecular Weight:** 598.08

Batch Molecular Formula: C₂₆H₂₈ClNO.C₆H₈O₇.0.25H₂O **Batch Molecular Weight:** 602.59

Appearance: White solid **Observed mp:** >121 °C (decomp)

TLC (R_f): 0.46 DCM/MeOH (9:1)

Chemical Purity: 99.6%

¹H-NMR: Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 63.78, H 6.11, N 2.32; Found: C 63.65, H 5.95, N 2.42

Storage Conditions: Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	3.4	5.6	* Warming (40°C) and sonication
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	60.3	>100 mM	
	EtOH	6.6	11.0	* Warming (40°C)

Remarks: Mixture of E- and Z-isomers.
* Warming (40°C) and/or sonication enhanced solubility.

QC Date: 1-9-2022

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only