

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC034001-01)

Release Date: 18/07/2024

Re-test Date: 17/07/2027

## Clomiphene Citrate USP

### Identification

**Chemical Name :**

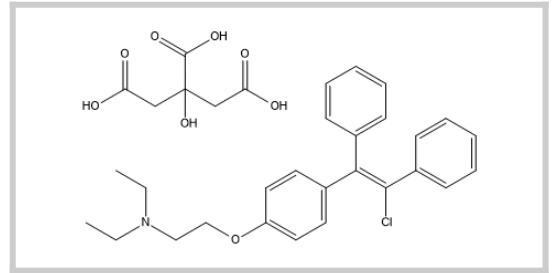
(E,Z)-2-(4-(2-chloro-1,2-diphenylvinyl)phenoxy)-N,N-diethylethanamine 2-hydroxypropane-1,2,3-tricarboxylate

**CAT No.** : KMC034001

**CAS No.** : 50-41-9

**Molecular Formula** : C<sub>26</sub>H<sub>28</sub>ClNO : C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>

**Molecular Weight** : 405.96 : 192.1



### Analytical Information

**Batch No.** : CLO-PRS-073-292

**Description** : White Solid

**HPLC Purity** : 99.64 %

**Weight Loss By TGA** : 0.43 %

**% Potency** : 99.21 %

**Solubility** : Refer Additional information

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

**<sup>13</sup>C NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be shipped at room temperature

**% Potency** = [100 - 0.43(Weight Loss By TGA)] x [99.64(HPLC Purity)]/100 = 99.21 %

-Buffer : Acetonitrile, diethylamine and water (40: 0.8: 60). Adjust with ortho phosphoric acid to a pH of 6.2.

-Solubility : Buffer

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		19/07/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		19/07/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, <sup>13</sup>CNMR, IR and TGA