

# CERTIFICATE OF ANALYSIS

(Certificate No. KMA015005-01)

Release Date: 23/05/2024

Re-test Date: 22/05/2027

## Aripiprazole Impurity F

### Identification

**Chemical Name :**

7-[4-[4-(2,3-Dichlorophenyl)-1-oxido-1-piperazinyl]butoxy]-3,4-dihydro-2(1H)-quinolinone

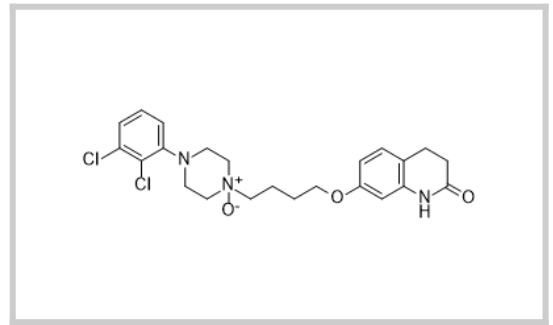
**Alt. Name** : Aripiprazole N1-Oxide , Aripiprazole  
USP Related Compound F

**CAT No.** : KMA015005

**CAS No.** : 573691-09-5

**Molecular Formula** : C<sub>23</sub>H<sub>27</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>

**Molecular Weight** : 464.4



### Analytical Information

**Batch No.** : ARI-EPF-073-229

**Description** : Off White solid

**HPLC Purity** : 99.31 %

**Weight Loss By TGA** : 0.45 %

**% Potency** : 98.86 %

**Solubility** : ACN : Methanol  
(1:1)

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H 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 - 0.45(Weight Loss By TGA)] x [99.31(HPLC Purity)]/100 = 98.86 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		16/07/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		16/07/2024

**Attachments** : COA, HPLC, MASS, 1HNMR, IR and TGA