

# CERTIFICATE OF ANALYSIS

(Certificate No. KMK001002-01)

Release Date: 20/02/2024

Re-test Date: 19/02/2027

## Ketorolac EP Impurity J

### Identification

**Chemical Name :**  
ethyl 5-benzoyl-2,3-dihydro-1H-pyrrolizine-1-carboxylate

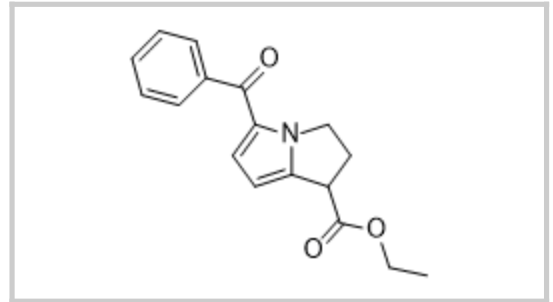
**Alt. Name** : ethyl 5-benzoyl-2,3-dihydro-1H-pyrrolizine-1-carboxylate

**CAT No.** : KMK001002

**CAS No.** : 108061-03-6

**Molecular Formula** : C<sub>17</sub>H<sub>17</sub>NO<sub>3</sub>

**Molecular Weight** : 283.32



### Analytical Information

**Batch No.** : KET-EPJ-073-079

**Description** : Off White Solid

**HPLC Purity** : 98.51 %

**Weight Loss By TGA** : 0.05 %

**% Potency** : 98.46 %

**Solubility** : ACN

**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 - 0.05(Weight Loss By TGA)] x [98.51(HPLC Purity)]/100 = 98.46 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Parag Patel		20/02/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		20/02/2024

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