

# CERTIFICATE OF ANALYSIS

(Certificate No. KMR014001-01)

Release Date: 08/07/2024

Re-test Date: 07/07/2027

## Rabeprazole Related Compound B

### Identification

**Chemical Name :**

2-(((1H-benzo[d]imidazol-2-yl)sulfinyl)methyl)-4-(3-methoxypropoxy)-3-methylpyridine 1-oxide

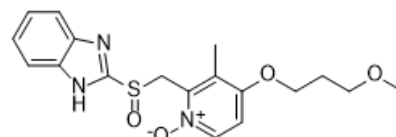
**Alt. Name** : Rabeprazole USP Related Compound B ; Rabeprazole N-Oxide

**CAT No.** : KMR014001

**CAS No.** : 924663-38-7

**Molecular Formula** : C<sub>18</sub>H<sub>21</sub>N<sub>3</sub>O<sub>4</sub>S

**Molecular Weight** : 375.44



### Analytical Information

**Batch No.** : RAB-N-OXIDE-045-079

**Description** : Off White Solid

**HPLC Purity** : 98.92 %

**Weight Loss By TGA** : 0.87 %

**% Potency** : 98.06 %

**Solubility** : Refer Additional information

**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 - 0.87(Weight Loss By TGA)] x [98.92(HPLC Purity)]/100 = 98.06 %

-Buffer Solution : Dissolve 17.4 g of dibasic potassium phosphate in 950 mL of water, adjust pH with 2N potassium hydroxide to a pH of 11.3, and dilute with water to 1000 mL.

-Solubility : Methanol : Buffer Solution (20:80)

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		09/07/2024
Reviewed & Approved By	Quality Control	Jatin Patel		09/07/2024

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