

# CERTIFICATE OF ANALYSIS

(Certificate No. SZ-O004002-1452)

Analysis Date: 28/02/2022

Re-test Date: 27/02/2024

## Esomeprazole EP Impurity A

### Identification

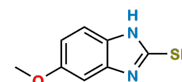
Chemical Name : 5-Methoxy-1H-benzimidazole-2-thiol

CAT No. : SZ-O004002

CAS No. : 37052-78-1

Molecular Formula : C<sub>8</sub>H<sub>8</sub>N<sub>2</sub>OS

Molecular Weight : 180.2



### Analytical Information

Batch Code : SRL-C-53

Solubility : ACN:H<sub>2</sub>O(8:2)

Appearance of product : White Solid

Long Term Storage : 2-8 °C for long term storage

Weight Loss By TGA : 0.36 %

HPLC Purity : 100.00 %

Mass : Confirm

IR Analysis : Confirm

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

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

DEPT Analysis : Confirm

### Additional Information

% Potency = [100 - 0.36 ( Wt loss by TGA )] X [ 100.00 (HPLC Purity)] / 100 = 99.64 %

Elemental Analysis (Theoretical) : %C: 53.32 %H: 4.470 %N: 15.54 %S: 17.790

Elemental Analysis (Practical) : %C: 53.67 %H: 3.779 %N: 15.52 %S: 17.774

Recommendation : Released

Department

Signature

Date

Prepared and Reviewed by	Analytical		
Approved By	Quality Control		

Attachments : HPLC, Mass, <sup>1</sup>H NMR, IR, TGA, <sup>13</sup>C NMR, DEPT, CHNS

Shipping Condition : All Products are stable to be shipped at room temperature, unless otherwise specified.