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## CERTIFICATE OF ANALYSIS

Analysis Date: Mar 2024

Re-test Date: Feb 2027

**Product Name: Metformin EP Impurity E**

### Identification:

Chemical Name: 1-Methyl Biguanide hydrochloride (as per EP)

Synonyms : Metformin USP Related  
Compound B ; N-Desmethyl  
Metformin

CAS Number : 1674-62-0

CAT Number : CP-M3005

Molecular Formula : C<sub>3</sub>H<sub>9</sub>N<sub>5</sub> : HCl

Molecular Weight : 115.14 : 36.46

Batch Number : CP-MET-E-0324

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.83%
5)	<sup>1</sup> H NMR	Confirm to structure
6)	<sup>13</sup> C NMR	Confirm to structure
7)	IR	Confirm to structure
8)	Weight loss by TGA	0.424%
9)	Potency by TGA	99.41%



**Prepared and Reviewed By**

A handwritten signature in blue ink, appearing to read "Priyanka Salunkhe".

Ms Priyanka Salunkhe  
(Quality Control)

**Approved By**

A handwritten signature in blue ink, appearing to read "Rohini Gagare".

Ms Rohini Gagare  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.