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## CERTIFICATE OF ANALYSIS

Analysis Date:

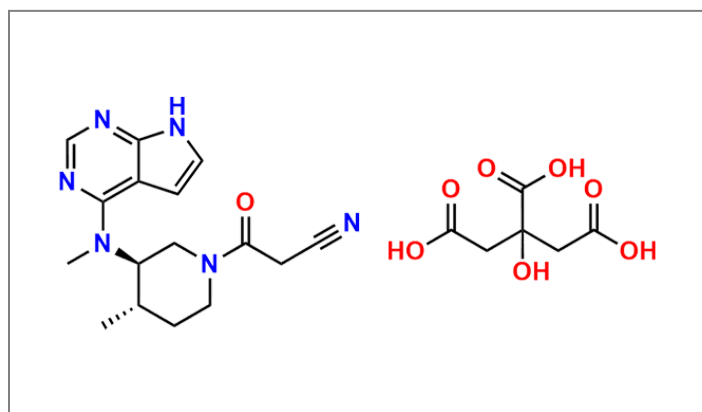
Re-test Date:

**Product Name: Tofacitinib Impurity A (citric acid)**

**Identification:**

Chemical Name: 3-((3R,4S)-4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile 2-hydroxypropane-1,2,3-tricarboxylate

Synonyms : NA  
CAS Number : 2174011-53-9  
CAT Number : CP-T23094  
Molecular Formula : C<sub>16</sub>H<sub>20</sub>N<sub>6</sub>O : C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>  
Molecular Weight : 312.38 : 192.12



**Analytical Information:**

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

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