

**CERTIFICATE OF ANALYSIS OF REFERENCE STANDARD**

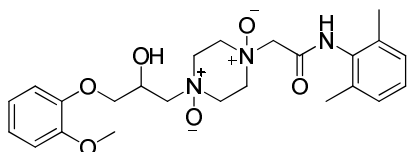
Reference Standard

Date

**Ranolazine N,N-Dioxide Impurity**

Batch No.:

IUPAC Name: 1-(2-((2,6-dimethylphenyl)amino)-2-oxoethyl)-4-(2-hydroxy-3-(2-methoxyphenoxy)propyl)piperazine 1,4-dioxide


 Molecular Formula: C<sub>24</sub>H<sub>33</sub>N<sub>3</sub>O<sub>6</sub>

Molecular weight: 459.54 g/mol

Sr.#	Test	Results	Data ref.
1	Appearance	Off White solid	-----
2	Purity by HPLC	>90%	Chromatogram attached
3	Mass	Conform	Report attached
4	NMR	Conform	Report attached
5	IR	Conform	Report attached

**Storage condition:** Store at 2-8°C, protect from direct sunlight and moisture.

This certificate of analysis is valid for three years from date of manufacturing, provided the substance is stored under suitable conditions.

**Manufacturing date:**
**Retest date:**
**Document data reference:**
*Prepared by*
*Reviewed by*
*Approved by*