

## CERTIFICATE OF ANALYSIS

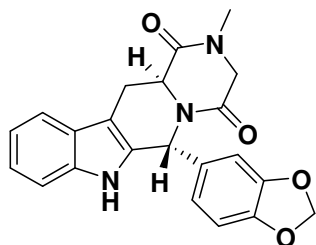
Reference Substance

Date:

**Tadalafil impurity-B (In-House)****Catalogue no.: VL300008**

Batch No.:

IUPAC Name: -(6R,12aS)-6-(1,3-benzodioxal-5yl)-2-methyl-2,3,6,7,12,12a-hexahydropyrazino [1',2':1,6]pyrido[3,4-b]-1,4-dione



Molecular Weight: 389.4g/mol

Molecular Formula: C<sub>22</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>

Sr.#	Test	Results	Data ref.
1	Appearance	White Solid	-----
2	Purity by HPLC	94.24%	Chromatogram attached
3	Mass	Conform	Report attached
4	<sup>1</sup> H NMR	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.

**Date of manufacturing:****Retest Date:****Document data reference:***Prepared by**Reviewed by**Approved by*