

## CERTIFICATE OF ANALYSIS

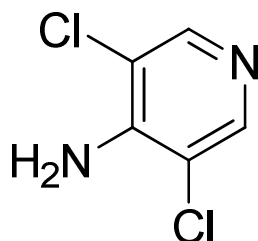
Reference Substance

Date:

**Roflumilast Impurity DP-1**

Batch No.

IUPAC Name: 3,5-dichloropyridin-4-amine

Molecular Formula: C<sub>5</sub>H<sub>4</sub>Cl<sub>2</sub>N<sub>2</sub>

Molecular weight: 163.0 g/mol

Sr.#	Test	Results	Data ref.
1	Appearance	White Solid powder	-----
2	Purity by HPLC	96.44%	Chromatogram attached
3	NMR	Conform	Report attached
4	MASS	Conform	Report attached

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

This certificate of analysis is valid for two 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*