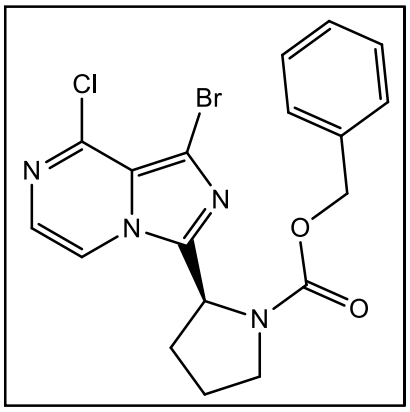
Certificate Of Analysis

Analysis Date: **Re-test Date:**

ACALABRUTINIB IMPURITY 22

Identification

Chemical Name : Benzyl (S)-2-(1-bromo-8-chloroimidazo[1,5-a]pyrazin-3-yl)pyrrolidine-1-carboxylate



CAT No : ALL-A07597

CAS No : 1420478-87-0

Molecular Formula : C18H16BrClN4O2

Molecular Weight : 435.7

Analytical Information

Batch Code	: ALL-A07597	**HPLC Purity**	: 98.00 %
Solubility	: MeOH: ACN	**Potency**	: N.A
Appearance of Product	: Off White Solid	**Mass**	: Confirm
Long Term Storage	: 2-8^{0}C	**IR Analysis**	: Confirm
Weight Loss By TGA	: N.A	**1HNMR**	: Confirm
Residue Of Ignition	: N.A		

Additional Information

%Potency = [100 -(Inorganic Impurities % + Water %) × Chromatographic Purity%]/100 = N.A

Recommendation : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Swapnil Kausatkar Jr. Executive	
Approved By	QA&QC	Dr. Ashish Keche Director QA&QC	

Attachment : HPLC, Mass, 1H NMR, IR

Shipping Condition : All Product are stable to be shipped at room temperature, unless otherwise specified

Corporate Office
Allmpus Laboratories Pvt Ltd 38, Solitaire Industrial Estate, Plot No.TS-1, Near Nandi Palace Hotel, MIDC-Phase 1, Dombivli (E),Mumbai, Maharashtra 421203