

Certificate of Analysis

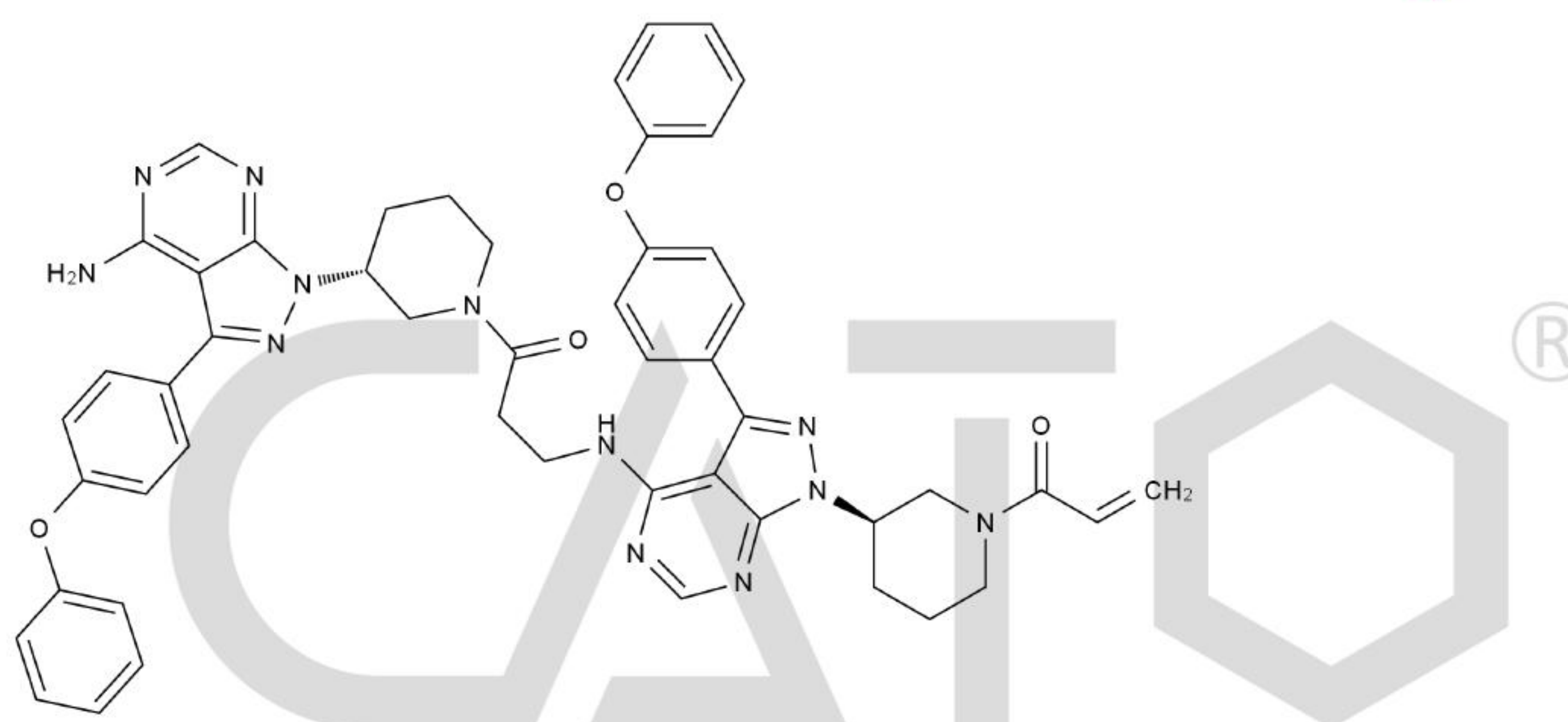
Reference Material & Standard

Product Name:	Ibrutinib Impurity 14	Catalogue Number:	C4X-106414
Synonyms:	N/A	Lot Number:	0630-RH-0055
CAS Number:	2031255-23-7	Expiry Date:	Jun 29, 2030
Molecular Formula:	C ₅₀ H ₄₈ N ₁₂ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	880.99	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.38%
Residue on Ignition	TGA	0.3376%
Loss on Drying	TGA	2.2635%
Assay		92.9%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Residue on Ignition - Loss on Drying) * Purity HPLC (%) / 100%

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 08, 2026

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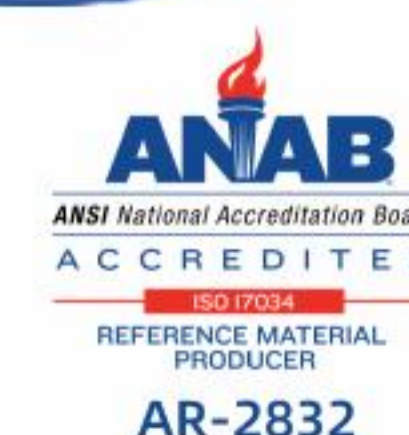
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