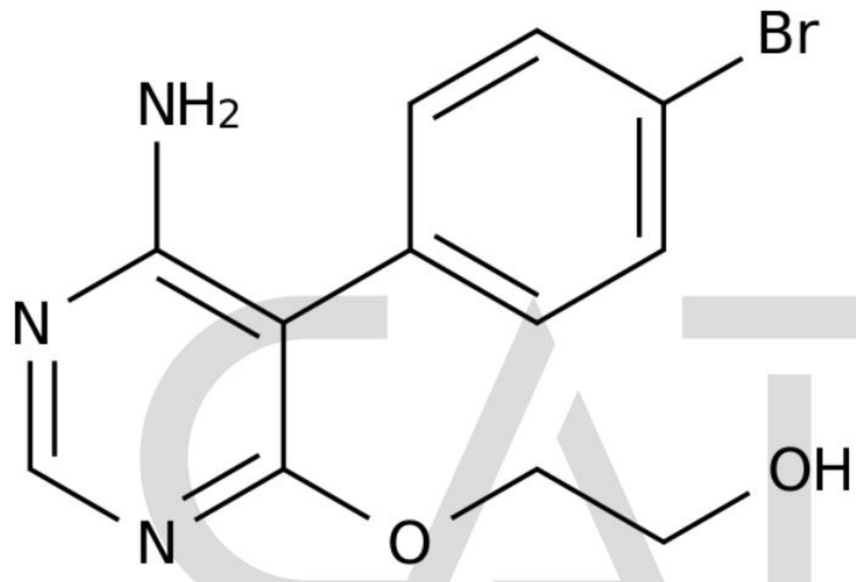
Certificate of Analysis

Reference Material & Standard

Product Name:	Macitentan Impurity 14	**Catalogue Number:**	C4X-117514
Synonyms:	N/A	**Lot Number:**	0924-RH-0021
CAS Number:	2211059-05-9	**Expiry Date:**	Oct 31, 2028
Molecular Formula:	$C_{12}H_{12}BrN_3O_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	310.15	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	99.952%
Water Content	Karl Fischer	0.66%
Residual Solvents	NMR	Not detected in NMR
Assay		99.3%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content-Residual Solvents) * Purity HPLC (%) /100%*
Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Date: Sep 24, 2026

Reviewed by: Date: Sep 28, 2026

Approved by General Manager: Date: Sep 28, 2026

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

ISO 9001:2000 SYSTEM CERTIFICATION SGS

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