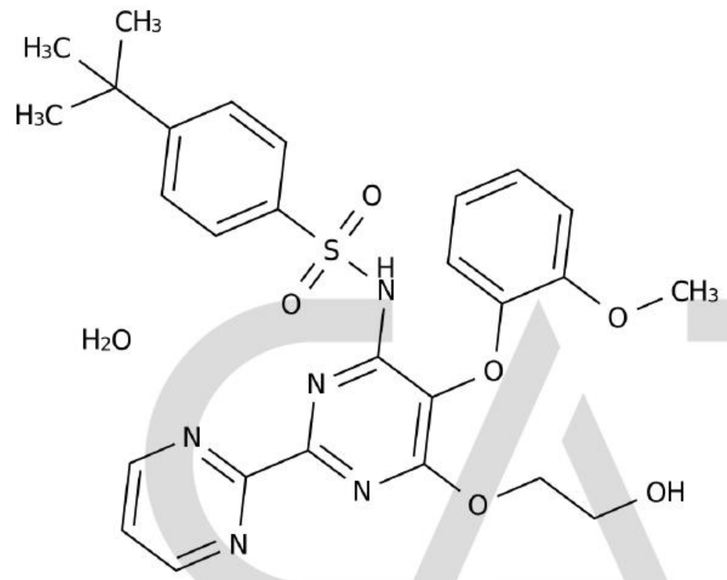
Certificate of Analysis

Reference Material & Standard

Product Name:	Bosentan hydrate	**Catalogue Number:**	C4X-15645
Synonyms:	N/A	**Lot Number:**	0922-RH-0131
CAS Number:	157212-55-0	**Expiry Date:**	Oct 07, 2030
Molecular Formula:	$C_{27}H_{29}N_5O_6S\ H_2O$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	551.61 18.02	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.809%
Residue on Ignition	TGA	0.5118%
Loss on Drying	TGA	3.6815%
Loss on Drying(Free Water)		0.5180%
Assay	Mass Balance	98.8%

CATO Research Chemicals Inc.

Comment:

1. The content of crystal water is 3.1635%.
2. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Residue on Ignition-Loss on Drying(Free Water)) * Purity HPLC (%) /100%*
Residue on Ignition and Loss on Drying(Free Water) are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice — Date: Oct 08, 2026

Reviewed by: Koi — Date: Oct 08, 2026

Approved by General Manager: David — Date: Oct 08, 2026

CATO Research Chemicals Inc.