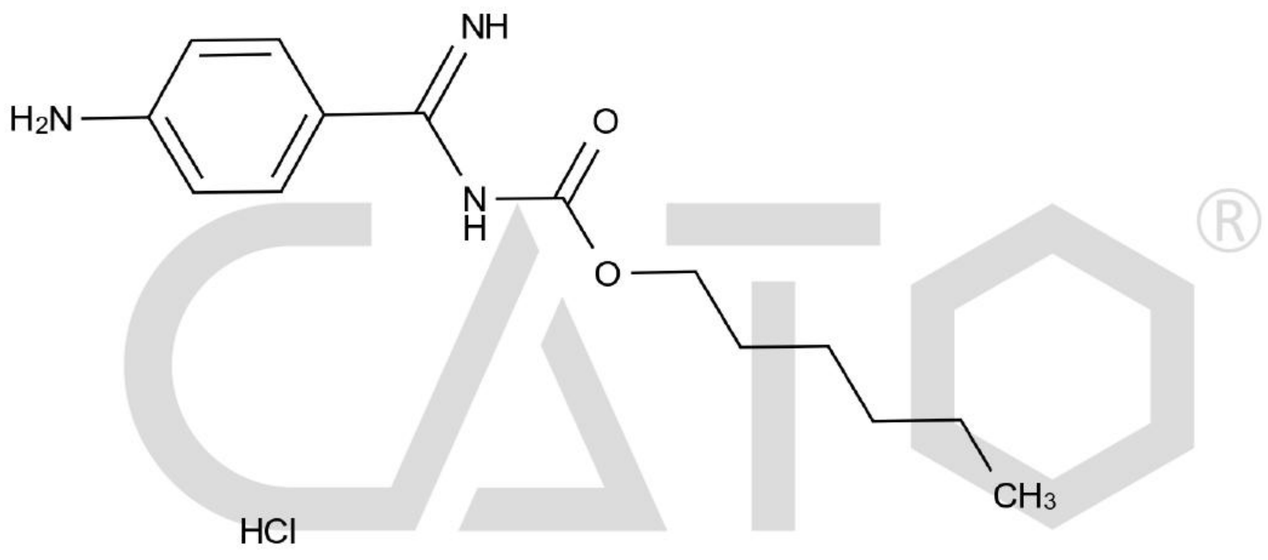
Certificate of Analysis

Reference Material & Standard

Product Name:	Dabigatran Impurity 18	**Catalogue Number:**	C4X-108918
Synonyms:	N/A	**Lot Number:**	0918-RH-0008
CAS Number:	1307233-93-7	**Expiry Date:**	Mar 24, 2030
Molecular Formula:	$C_{14}H_{21}N_3O_2$ HCl	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	263.34 36.46	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	99.376%
Water Content	Karl Fischer	0.59%
Assay		98.8%

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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) * Purity HPLC (%) /100%*
Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Date: Sep 18, 2026

Reviewed by: Date: Sep 18, 2026

Approved by General Manager: Date: Sep 18, 2026

CATO Research Chemicals Inc.