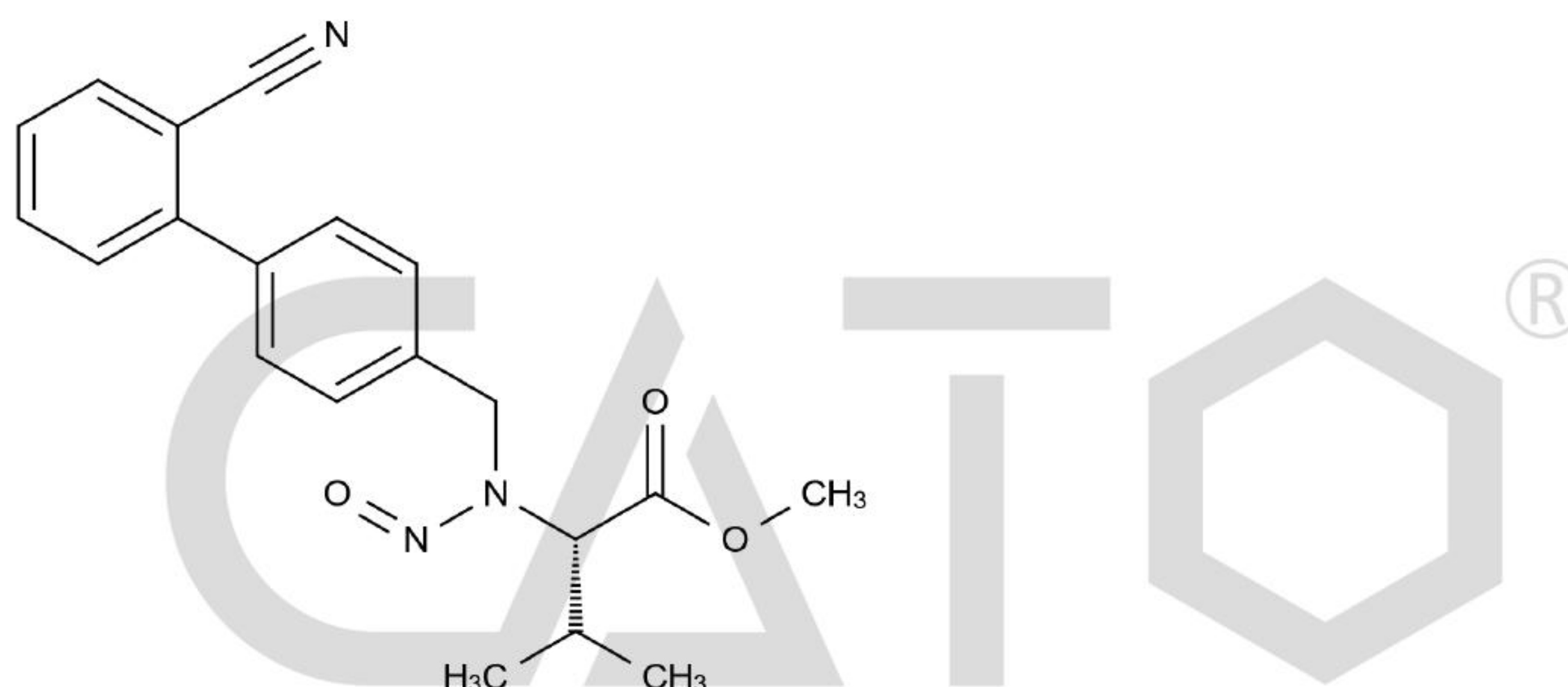


Certificate of Analysis

Reference Material & Standard

Product Name:	Valsartan Impurity 128	Catalogue Number:	C4X-1057128
Synonyms:	Methyl N-((2'-cyano-[1,1'-biphenyl]-4-yl)methyl)-N-nitroso-L-valinate	Lot Number:	0127-RH-0039
CAS Number:	3112735-84-6	Expiry Date:	Feb 02, 2030
Molecular Formula:	C ₂₀ H ₂₁ N ₃ O ₃	Storage:	-20°C ± 5°C Sealed
Molecular Weight:	351.40	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in Acetonitrile and Chloroform		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.864%
Residue on Ignition	TGA	0.3318%
Loss On Drying	TGA	0.0972%
Assay	qNMR	98.8%
Assay	Mass Balance	99.4%

Comment:

- The retest date of this product is Feb 02, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.
- The material may undergo tautomerism.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Mar 11, 2026

Date: Mar 11, 2026

Date: Mar 11, 2026

