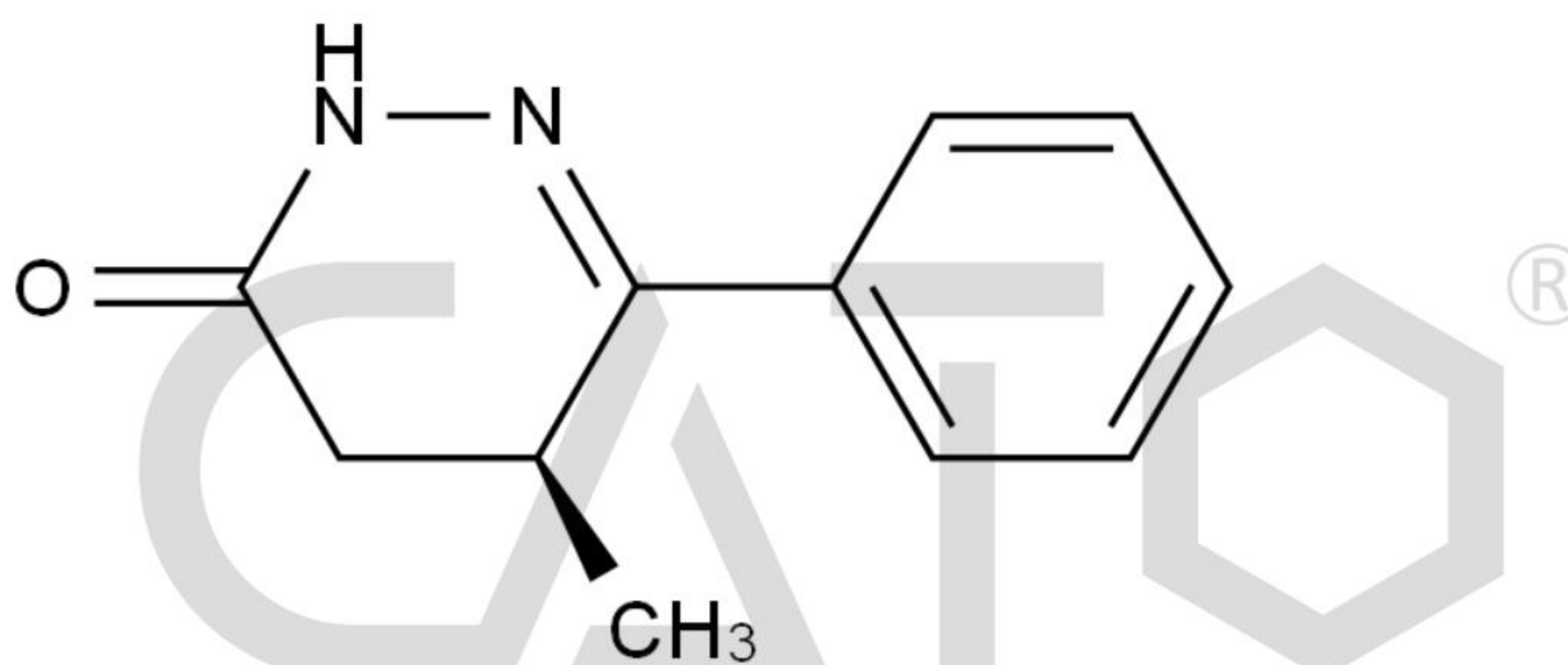


Certificate of Analysis

Reference Material & Standard

Product Name:	Levosimendan Impurity 16	Catalogue Number:	C4X-130816
Synonyms:	N/A	Lot Number:	0316-RC-0001
CAS Number:	2290570-69-1	Expiry Date:	Feb 17, 2025
Molecular Formula:	C ₁₁ H ₁₂ N ₂ O	Storage:	-20°C ± 5°C Protected from light and Sealed
Molecular Weight:	188.23	Shipping Condition:	Shipping with Ice Packs
Solubility:	Chloroform (Slightly), Methanol (Slightly, Sonicated)		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.71%
Loss on Drying	TGA	0.955%
Assay		98.8%

Comment:

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

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

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Hin Lam

Reviewed by:

Debia

Approved by General Manager:

David

Date: Mar 16, 2021

Date: Mar 16, 2021

Date: Mar 16, 2021



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