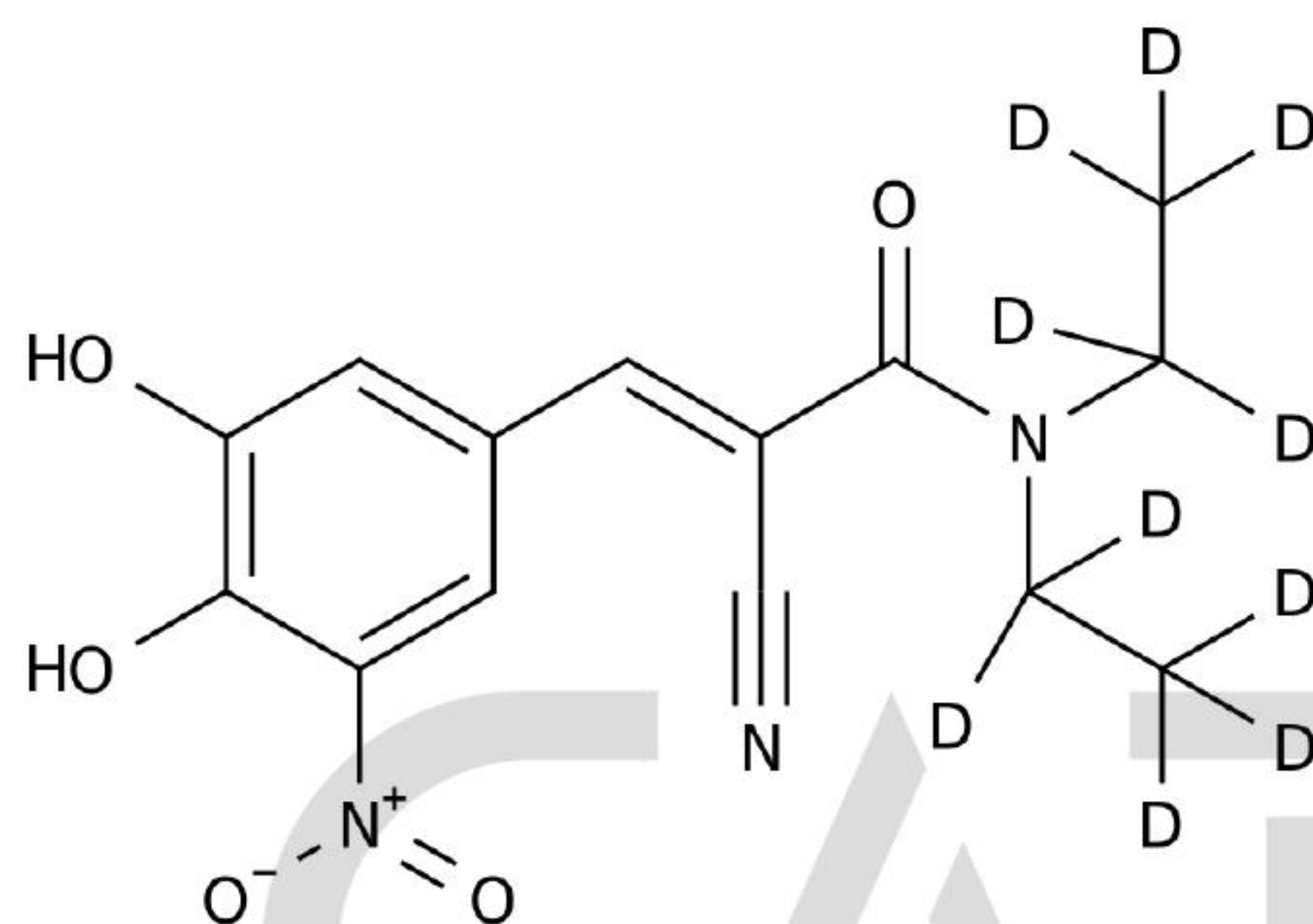


Certificate of Analysis

Reference Material

Product Name:	Entacapone Impurity 23	Catalogue Number:	C4X-162923
Chemical Name:	N/A	Lot Number:	0920-RE-0029
CAS Number:	1185241-19-3	Expiry Date:	May 29, 2026
Molecular Formula:	C ₁₄ H ₅ D ₁₀ N ₃ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	315.35		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	98.7916%
Isotopic Purity		99.6%
Water Content	Karl Fischer	0.30%
Residual Solvents	NMR	1.3% ethyl acetate
Assay		97.2%

Comment:

The calculation of the 100% 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:

Lily

Reviewed by:

Hin Lam

Aporoved by General manager:

David

Date: May 30, 2023

Date: Sep 21, 2023

Date: Sep 21, 2023

