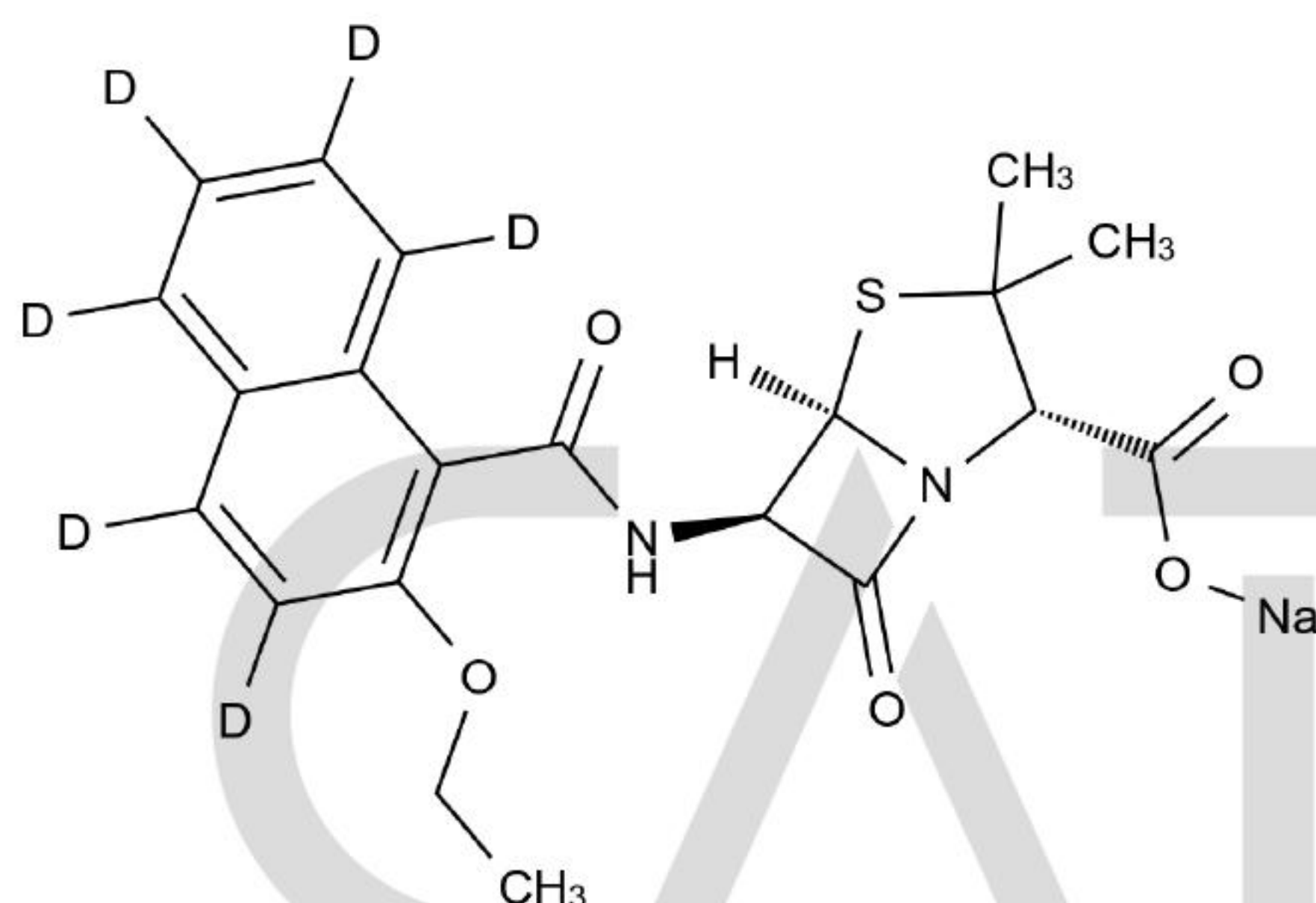


Certificate of Analysis

Reference Material & Standard

Product Name:	Nafcillin-D6 sodium salt	Catalogue Number:	CCAD304201
Synonyms:	N/A	Lot Number:	0114-RG-0015
CAS Number:	N/A	Expiry Date:	Jun 23, 2026
Molecular Formula:	C ₂₁ H ₁₅ D ₆ N ₂ NaO ₅ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	442.49	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Solid
Identification	LCMS	Confirmed
Chemical Purity	HPLC	99.4%
Isotopic Purity		96.9%
Water Content	Karl Fischer	6.80%
Assay		92.6%
Uncertainty		±2.0%

Comment:

1. No chromatogram available.
2. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.
3. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Jan 17, 2025

Date: Jan 17, 2025

Date: Jan 17, 2025

