

Certificate of Analysis

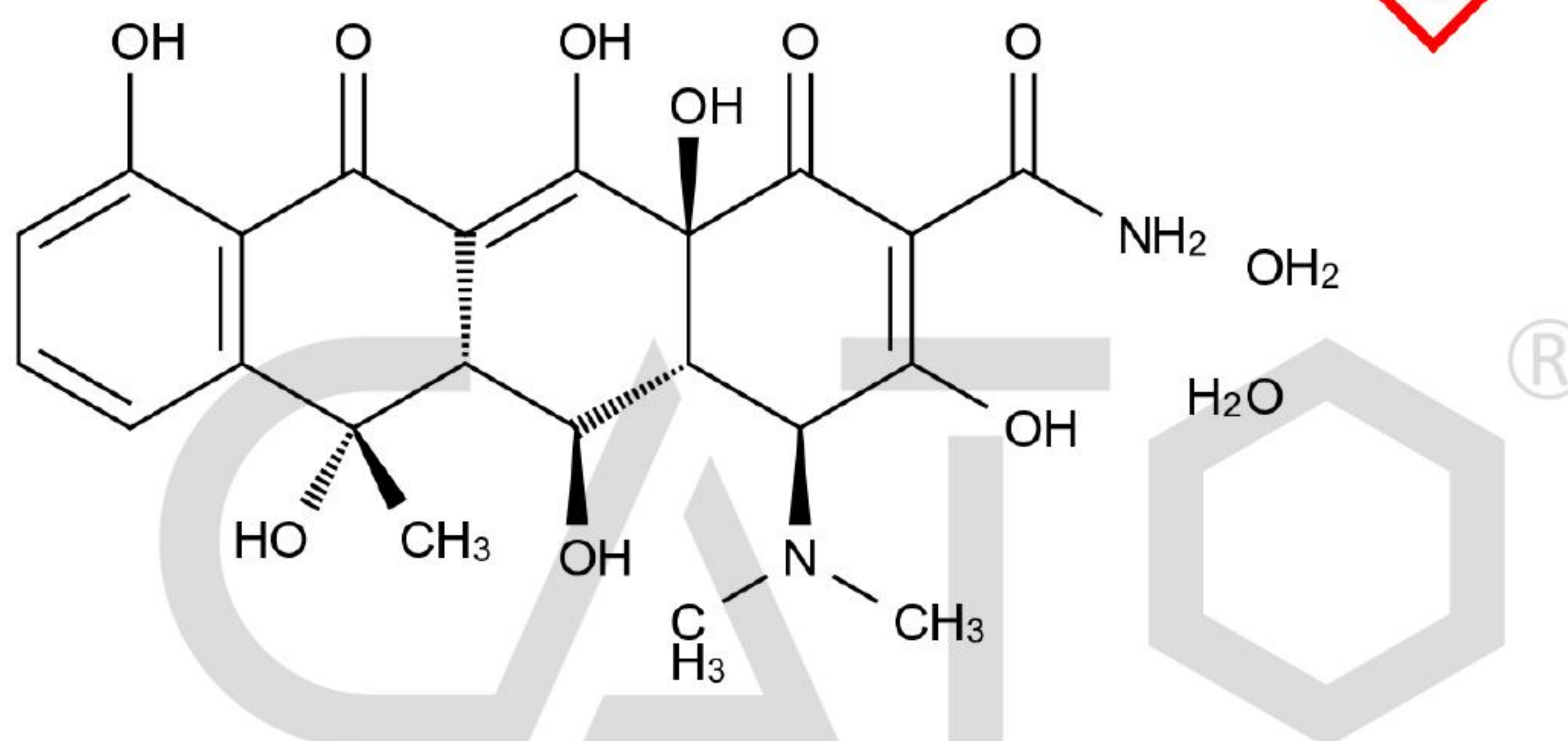
Reference Material & Standard

Product Name:	Oxytetracycline Dihydrate	Catalogue Number:	CCAD300532
Synonyms:	N/A	Lot Number:	0622-RH-0062
CAS Number:	6153-64-6	Expiry Date:	Jun 21, 2030
Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₉ 2*H ₂ O	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	460.43 2*18.02	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.330%
Loss on Drying	TGA	7.3490%
Loss on Drying(Free Water)		0.0897%
Assay		95.2%
Uncertainty		±0.9%

Comment:

- The content of crystal water is 7.2593%.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$
 Loss on Drying(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.
- 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:

Hinlam

Approved by General Manager:

David

Date: Jun 22, 2026

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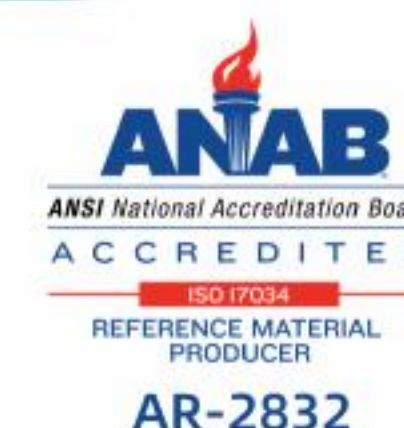
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