

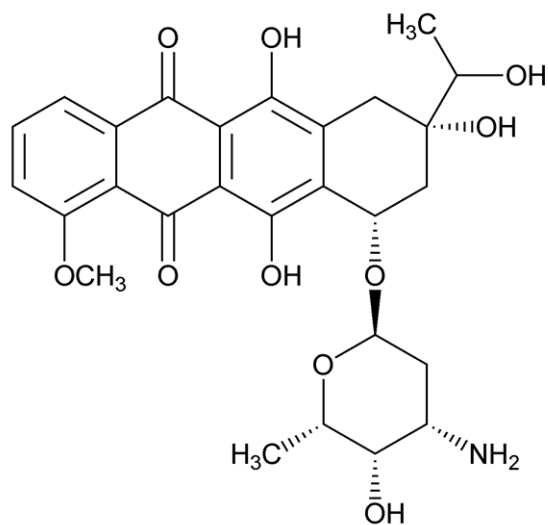
# Certificate

## DIHYDRODAUNORUBICIN HYDROCHLORIDE

*((8S,10S)-10-[(3-Amino-2,3,6-trideoxy- $\alpha$ -L-lyxo-hexopyranosyl)oxy]-6,8,11-trihydroxy-8-(1-hydroxyethyl)-1-methoxy-7,8,9,10-tetrahydrotetracene-5,12-dione hydrochloride)*

USP Catalog No.: 1200881

USP Lot No.: F022N0



• HCl

CAS No.: N/A

Molecular Formula:  $C_{27}H_{31}NO_{10} \cdot HCl$

Molecular Weight: 566.00

**LABEL TEXT**

For use with specified USP compendial tests.  
Not for use as a drug. See SDS prior to use at  
[www.usp.org/sds](http://www.usp.org/sds).



Lot: F022N0

**USP REFERENCE STANDARD**

**DIHYDRODAUNORUBICIN HYDROCHLORIDE 20 mg**

((8S,10S)-10-[(3-Amino-2,3,6-trideoxy- $\alpha$ -L-lyxo-hexopyranosyl)oxy]-6,8,11-trihydroxy-6-(1-hydroxyethyl)-1-methoxy-7,8,9,10-tetrahydrotetracene-5,12-dione hydrochloride)



Warning! Suspected of causing genetic defects. Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child. May cause damage to organs (heart)  
through prolonged or repeated exposure.

This is a mixture of the two diastereoisomers of dihydrodaunorubicin. Do not dry. For quantitative applications, use a value of 0.77 mg of dihydrodaunorubicin (sum of isomers) per mg of material on the as is basis. Keep container tightly closed. Protect from light. Store in a freezer. The material is hygroscopic.

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666  
CAT No. 1200881 Material mfd. in United States

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

*Jeri L. Joth*

Quality Assurance

**Calculation Value**

If a value is not provided on the label or accompanying documentation and the Reference Standard has a quantitative USP compendial application, a value of 100.0% is used. The purity value is not applicable for qualitative uses. Please refer to the specific Reference Standard label for further information.

**Expiration**

Current lots are identified in the current USP Catalog. In some cases, the previous lot may still be considered valid for use. If so, it is identified in the column marked "Previous Lot/Valid Use Date."

It is the responsibility of each user to determine that this lot is current or valid when used. For the most up-to-date information, please refer to the USP Store at [www.usp.org](http://www.usp.org).

**Instructions for Use**

Follow the instructions on the label of the USP Reference Standard and in the appropriate USP documentary standard(s).

**Non-Monograph Use**

The suitability of this Reference Standard for use in non-compendial applications is solely the responsibility of the user.

**LEGAL NOTICE**

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