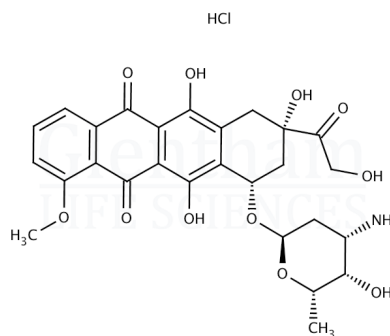


## Product Specification

|                   |                                      |
|-------------------|--------------------------------------|
| Product Name      | Doxorubicin hydrochloride, USP grade |
| Glentham Code     | GA4969                               |
| CAS Number        | 25316-40-9                           |
| EINECS            | 246-818-3                            |
| MDL Number        | MFCD00077757                         |
| Additional CAS    | 23214-92-8 (base)                    |
| Molecular Weight  | 579.99                               |
| Molecular Formula | $C_{27}H_{29}NO_{11} \cdot HCl$      |
| Storage Temp.     | +4°C                                 |



| Property                       | Specification                        |
|--------------------------------|--------------------------------------|
| Physical Description           | Orange-red to red crystalline powder |
| Assay                          | ≥ 98.0% (anhydrous, solvent-free)    |
| Total Impurities               | ≤ 2.0%                               |
| Acetone                        | ≤ 0.5%                               |
| Acetone and Alcohol            | ≤ 2.5%                               |
| pH                             | 4.0 - 5.5 (5mg/ml in water)          |
| Water                          | ≤ 4.0%                               |
| Pharmacopoeia Specification(s) | USP                                  |

|                       |              |
|-----------------------|--------------|
| Specification Version | - v1.0       |
| Date Created          | - 2013-11-22 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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