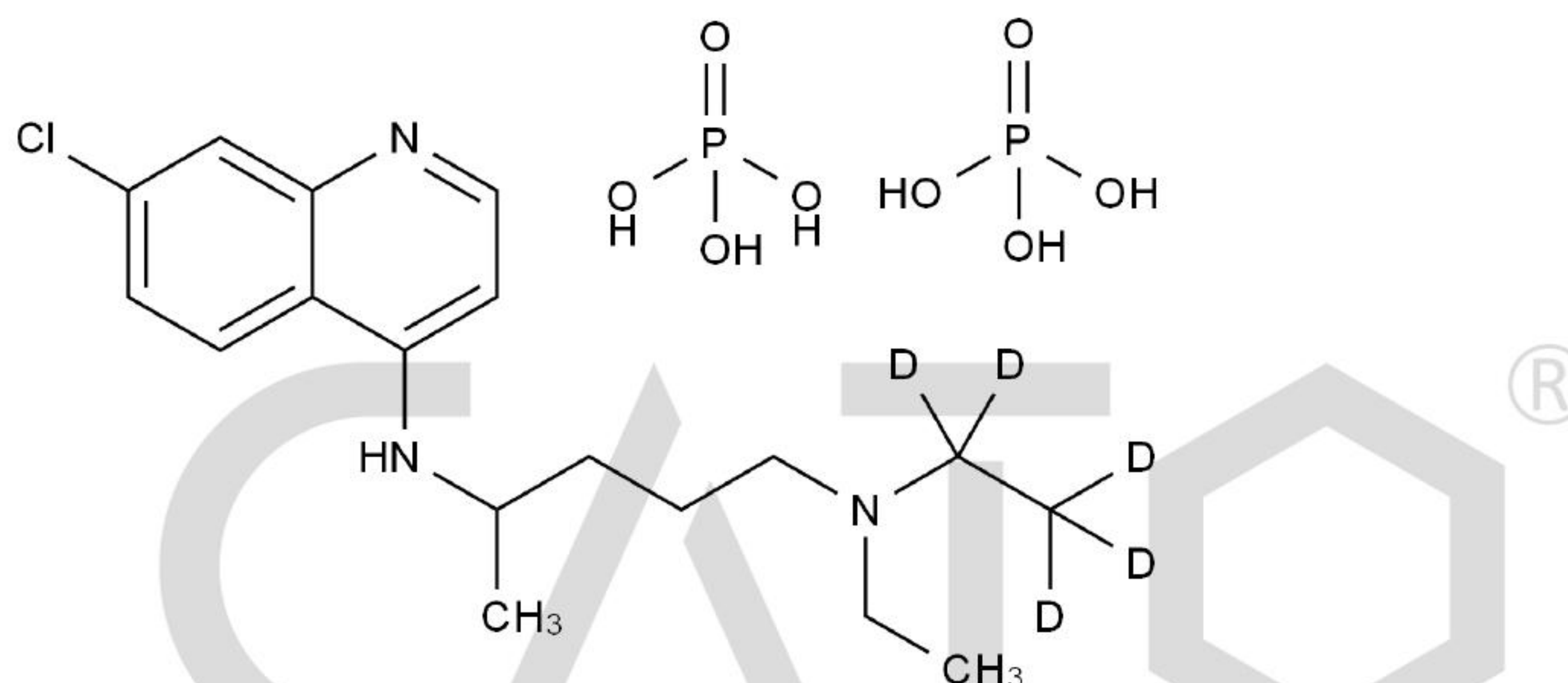


# Certificate of Analysis

## Reference Material & Standard

|                           |                                       |                          |                                           |
|---------------------------|---------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Chloroquine-d5 Diphosphate            | <b>Catalogue Number:</b> | C4X-183516                                |
| <b>Synonyms:</b>          | N/A                                   | <b>Lot Number:</b>       | 0109-RE-0031                              |
| <b>CAS Number:</b>        | 50-63-5 (unlabelled)                  | <b>Expiry Date:</b>      | Apr 11, 2024                              |
| <b>Molecular Formula:</b> | $C_{18}H_{21}D_5ClN_3 \cdot 2H_3O_4P$ | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 324.90 2*98.00                        |                          |                                           |

Chemical Structure:



| Test Items        | Method            | Results                  |
|-------------------|-------------------|--------------------------|
| Appearance        | Visual inspection | White to Off-White Solid |
| Identification    | LCMS&IR&HNMR      | Confirmed                |
| Chemical Purity   | HPLC              | 99.6%                    |
| Isotopic Purity   |                   | 100.0%                   |
| Residual Solvents | NMR               | Not detected in NMR      |
| Assay             | qNMR              | 97.9%                    |

## Comment:

Assay was determined by quantitative <sup>1</sup>H-NMR.

## Signature:

Prepared by:

*Nacy*

Reviewed by:

*Xenia*

Approved by General Manager:

*David*

Date: Apr 12, 2021

Date: Jan 13, 2023

Date: Jan 13, 2023

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