



Certificate of Analysis

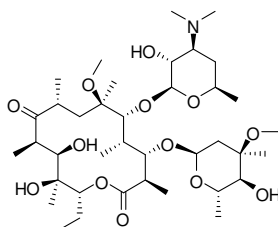
Axon Catalogue ID: 3445 **Batch Number:** 1

Product Name: Clarithromycin

Alternative Name(s): A56268; TE031

IUPAC Name: (3R,4S,5S,6R,7R,9R,11R,12R,13S,14R)-6-((2S,3R,4S,6R)-4-(Dimethylamino)-3-hydroxy-6-methyltetrahydro-2H-pyran-2-yloxy)-14-ethyl-12,13-dihydroxy-4-((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yloxy)-7-methoxy-3,5,7,9,11,13-hexamethyloxacyclotetradecane-2,10-dione

Structure:



Amount:

CAS number(s): 81103-11-9

Molecular Formula: C₃₈H₆₉NO₁₃ **Molecular Weight:** 747.95

Batch Molecular Formula: C₃₈H₆₉NO₁₃.0.5H₂O **Batch Molecular Weight:** 756.96

Appearance: White solid **Observed mp:** 225 - 228 °C

TLC (R_f): 0.37 DCM/MeOH (1:1)

Chemical Purity: >98%

Optical Purity (ee): Optically pure

¹H-NMR: Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 60.29, H 9.32, N 1.85; Found: C 60.36, H 9.46, N 1.85

Storage Conditions: Store at +4 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	0.0	0.0	Insoluble
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)			Not Tested
DMSO	5.0	6.6	** Sonication
EtOH	6.0	7.9	* Warming (40°C)

Remarks: Purity based on NMR.
* Warming (40°C) and ** sonication enhanced solubility.

QC Date: 19-8-2021

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only