



## Certificate of Analysis

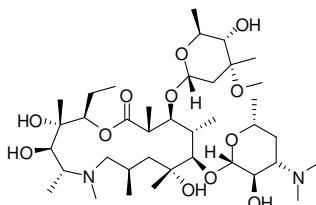
**Axon Catalogue ID:** 2042 **Batch Number:** 1

**Product Name:** Azithromycin

**Alternative Name(s):** CP 62993; Zithromax

**IUPAC Name:** (2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-11-((2S,3R,4S,6R)-4-(Dimethylamino)-3-hydroxy-6-methyltetrahydro-2H-pyran-2-yloxy)-2-ethyl-3,4,10-trihydroxy-13-((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yloxy)-3,5,6,8,10,12,14-heptamethyl-1-oxa-6-azacyclopentadecan-15-one

**Structure:**



**Amount:**

**CAS number(s):** 117772-70-0

**Molecular Formula:** C<sub>38</sub>H<sub>72</sub>N<sub>2</sub>O<sub>12</sub> **Molecular Weight:** 748.98

**Batch Molecular Formula:** C<sub>38</sub>H<sub>72</sub>N<sub>2</sub>O<sub>12</sub>.2H<sub>2</sub>O **Batch Molecular Weight:** 785.02

**Appearance:** White solid **Observed mp:** 127.4 - 129.9 °C

**TLC (R<sub>f</sub>):** 0.1 DCM/MeOH (9:1)

**Chemical Purity:** >98%

**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure

**Mass Spec:** Analytical data confirm chemical structure

**Microanalysis:** Calculated: C 58.14, H 9.76, N 3.57; Found: C 58.40, H 10.39, N 3.64

**Storage Conditions:** Store at +4 °C

Solubility Data:	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	54.0	68.8	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 16-3-2022

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**