



CERTIFICATE OF ANALYSIS

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1. Identification

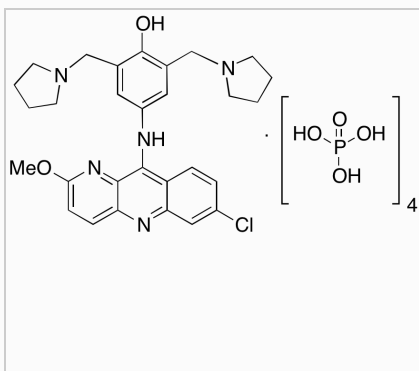
Catalogue Number: P997640

CAS Number: 76748-86-2

Synonym: Benzo[b]-1,5-naphthyridine Phenol Derivative Phosphate; Malaridine Phosphate (1:4); 4-[(7-Chloro-2-methoxybenzo[b]-1,5-naphthyridin-10-yl)amino]-2,6-bis(1-pyrrolidinylmethyl)phenol Phosphate(1:4); 4-[(7-Chloro-2-methoxybenzo[b]-1,5-naphthyridin-10-yl)amino]-2,6-bis(pyrrolidin-1-ylmethyl)phenol Phosphate(1:4)

Product: Pyronaridine Tetraphosphate

Structure:



Molecular Formula:

$C_{29}H_{44}ClN_5O_{18}P_4$

Molecular weight:

910.03

Source of Product:

N/A

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 2023-QIU-325

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Yellow Solid	Yellow Solid
NMR	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 38.14, %H: 4.97, %N: 7.49
HPLC Purity	Report Result	97.86% (280 nm)
MS	Conforms to Structure	Conforms
Phosphate Content	Report Result	34.2%

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
swathi reddy	Toni Rantanen	Chanell Chu	9/27/2023	9/25/2027
				