

# Certificate of Analysis

## NSI-189 phosphate

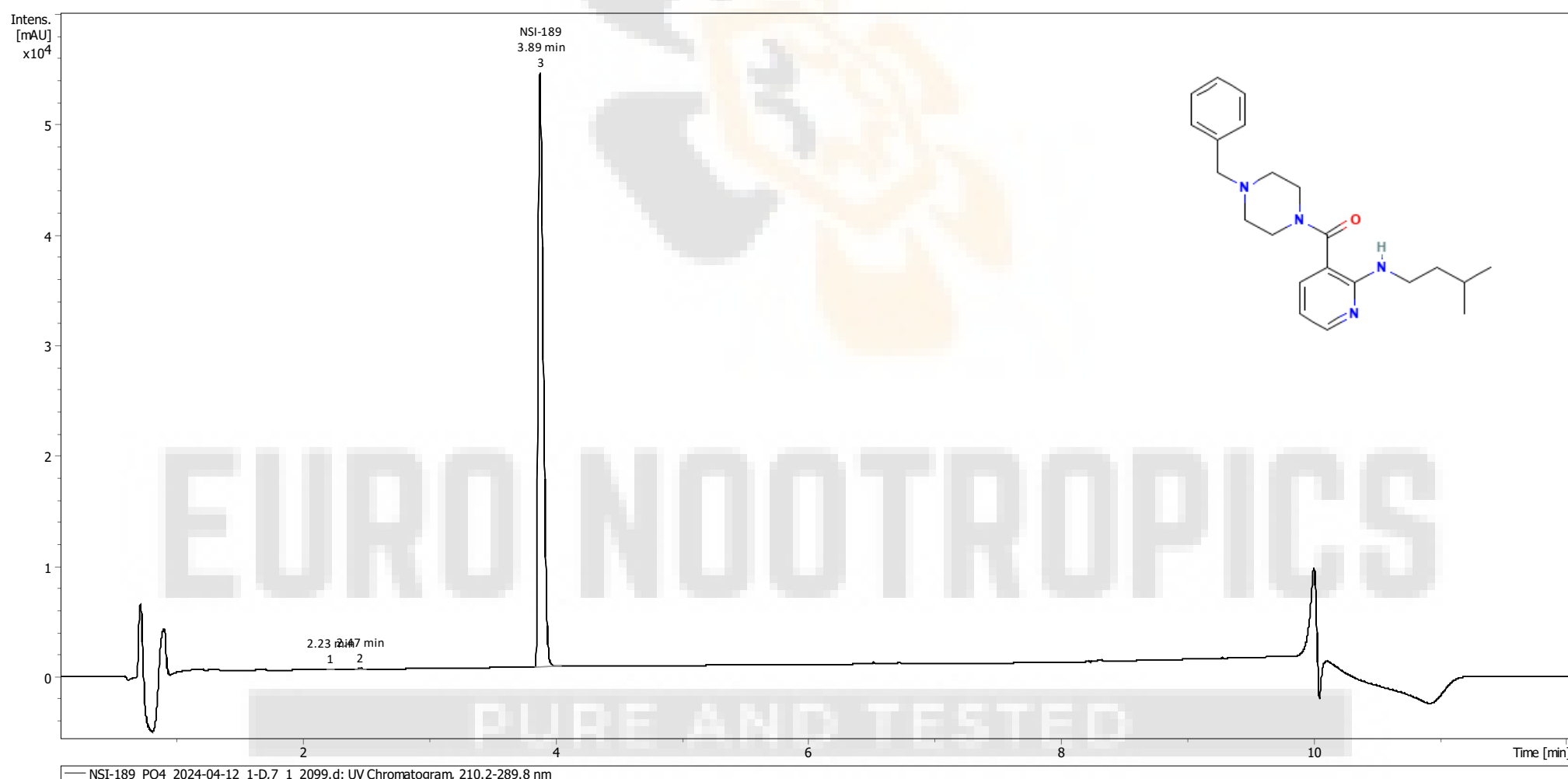
**Compound** : NSI-189 PO4  
**Lot number** : 2024-04-12  
**Analysis date** : 2024-04-22  
**Purity %** : 99.79%  
**Method** : HPLC-UV-MS

**Client** : Euro Nootropics

PubChem CID: 50922680

<https://pubchem.ncbi.nlm.nih.gov/compound/50922680>

### High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST		Number of detected peaks: 3		
	Time (min)	Area	%Area	
1	2.23	1.10E+02	0.07	
2	2.47	2.02E+02	0.14	
3	<b>3.89</b>	<b>1.50E+05</b>	<b>99.79</b>	<b>NSI-189</b>

Analysis Performed by  
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2024-04-24

# NSI-189 phosphate

PubChem CID: 50922680

<https://pubchem.ncbi.nlm.nih.gov/compound/50922680>

## Mass Spectrometry (MS) – Identity Test

### Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass : 366.24 Da

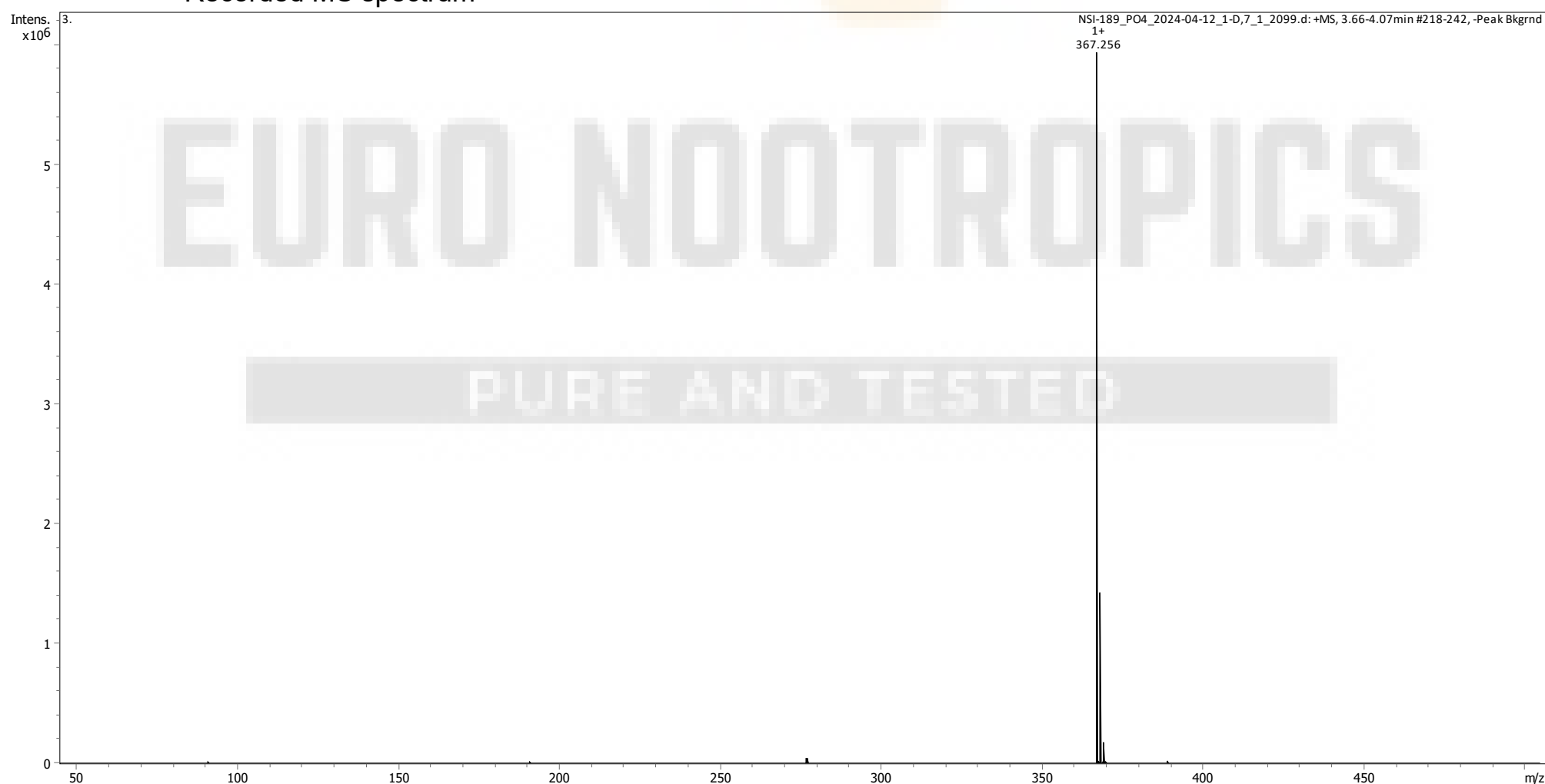
Measured monoisotopic mass : 366.26 Da

**Molecular weight confirmed**

Note : Molecular weight measurement for base molecule NSI-189, as the phosphate is ionically bonded and dissociates in solution to form free phosphate and free NSI-189.

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides. The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

### Recorded MS spectrum



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2024-04-24