

AMPcP Standard

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I. INTRODUCTION

LC-based analysis of metal sensitive analytes such as those containing phospho groups, uncharged amines, and deprotonated carboxylic acids can be challenging due to their interactions with metal components within a chromatographic separation. These interactions can lead to missed analytes, quantification errors, and wasted time. To support measurements requiring attenuation of metal surface interactions, Waters™ AMPcP Standard was commercialized to aid in verification of the functionality of ACQUITY™ Premier instrumentation. The AMPcP Standard is prepared as a stabilized and lyophilized form of adenosine 5'-(α,β -methylene)diphosphate and be used to perform chromatographic functionality tests. Each vial of the standard contains AMPcP (850 ng).

II. RECOMMENDED RECONSTITUTION

It is recommended to dissolve the standard in 200 μ L of 18.2 M Ω water while carefully aspirating or vortexing to mix. Use injection volumes between 0.5–2 μ L.

III. STORAGE AND STABILITY

Upon arrival and prior to reconstitution, store the standard in its original packaging at -20 °C up until its marked expiration date. After reconstitution, the standard can be stored at 4–8 °C for seven days without concern of degradation.

Acquity™ PREMIER

IV. EXAMPLE CONDITIONS AND REPRESENTATIVE DATA

LC system:	ACQUITY Premier
Column:	Zero-volume union
Temp.:	30 °C
Mobile phase A:	50:50 water:acetonitrile
Flow rate:	0.5 mL/min
Sample temp.:	10 °C
UV detection:	260 nm
Seal wash:	50% water/50% acetonitrile (v/v)
Needle wash:	50% water/50% acetonitrile (v/v)
Reconstitution:	200 µL 18.2 MΩ water
Injection volume:	1 µL

V. CAUTIONARY NOTE

Depending on the user's application, these products may be classified as hazardous following their use and as such are intended to be used by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use and disposal of products rests entirely with the purchaser and user.

This product is research only and not for IVD use.

The Safety Data Sheet (SDS) for this product is available at www.waters.com/sds.

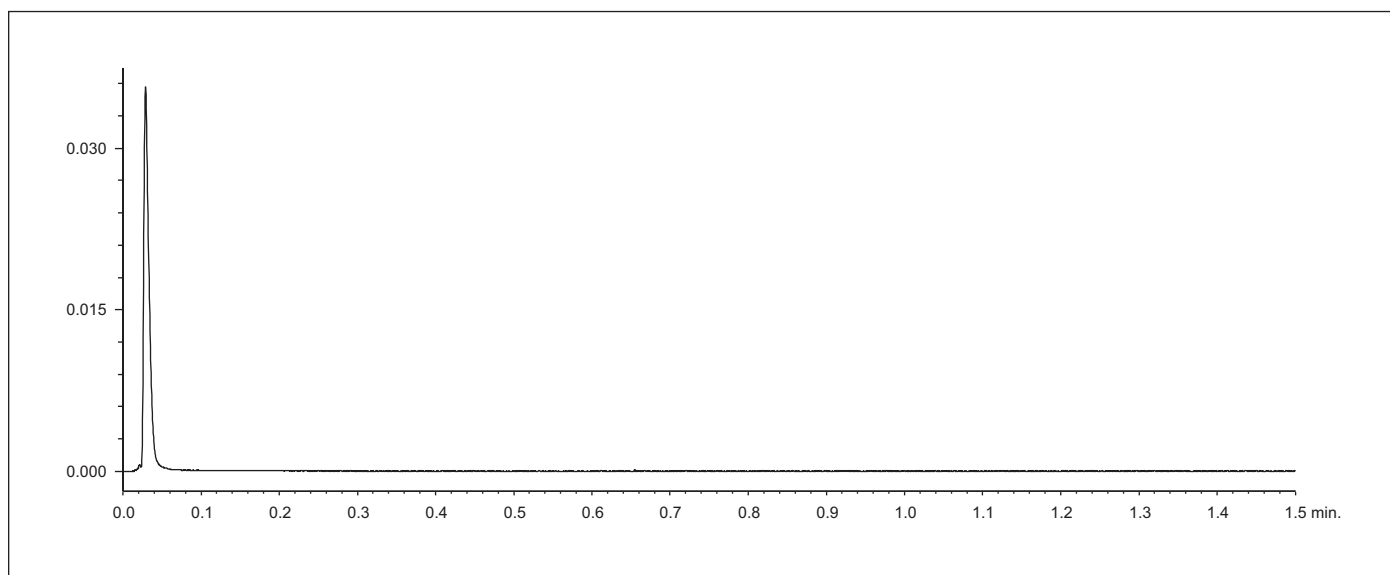


Figure 1. Example of AMPcP Standard injection test result.

VI. ORDERING INFORMATION

Description	Part number
AMPcP Standard	186009754

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