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**The method of performance testing for liquid chromatography  
coupled atomic fluorescence spectrometer**

液相色谱与原子荧光光谱联用仪性能测试方法

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### Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents". Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the Ministry of Science and Technology of the People's Republic of China.

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Liquid chromatography coupled with atomic fluorescence spectrometry Performance Testing Methods

### 1 Scope

This document describes a method for performance testing of liquid chromatography coupled to atomic fluorescence spectrometry.

This document is applicable to the performance test of liquid chromatography coupled with atomic fluorescence spectrometry.

## 2 Normative references

GB/T 4842

GB/T 6682

GB/T 32267

JJG1151

## 3 Terms and definitions

The terms and definitions defined in GB/T 32267, JJG1151 and the following apply to this document.

### 3.1 Baseline drift

A slow change in the baseline under specified operating conditions and over a specified period of time.

[Source. GB/T 32267-2015, 2.20]

### 3.2 Resolution

The degree of separation between two adjacent chromatographic peaks is the difference in retention time of the two components divided by their average peak width.

[Source. GB/T 32267-2015, 7.47, modified]

### 3.3 Long-term stability

The stability of the results of continuous measurements of the same sample by the instrument at different time periods over a longer period of time within a specified time.

Note. It is generally expressed as the combined relative standard deviation of the measured value results.

[Source. GB/T 32267-2015, 6.30]

## 4 Reagents and Materials

4.1 Hydrochloric acid (HCl). high-grade pure.

4.2 Nitric acid (HNO<sub>3</sub>). high purity.

4.3 Potassium hydroxide (KOH). analytical grade.

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