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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 19138-2003

**Testing method of material insoluble in acetone for pesticides
(English Translation)**

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Table of Contents

Foreword...	3
1 Scope...	4
2 Inspection method...	4

Foreword

This Standard is revised based on International Pesticide Analysis Collaborative Committee CIPAC MT 27 "Acetone insoluble matter measurement method".

Main differences between this Standard and CIPAC MT 27 are as follows.

- conical flask and reflux condenser are directly matched without glass interface, simplifying equipment;
- heat reflux is specified for 5 min to avoid decomposition of certain pesticides for long heating time and to avoid errors caused by naked eye observations;
- the specification of the sintered glass hoppers is unified with the domestic model G;
- added the drying of the glass crucible funnel before filtration. It is required to dry it in an oven at 110°C for 1 h to reach a constant weight.

This Standard was proposed by former National Petroleum and Chemical Industry Bureau.

This Standard shall be under the jurisdiction of National Technical Committee on Pesticides of Standardization Administration of China (CSBTS/TC 133).

The drafting organization of this Standard. Department of Applied Chemistry, China Agricultural University.

Main drafters of this Standard. Li Nan, Pan Canping, Nan Ruiran, Qian Chuanfan.

This Standard was issued for the first time.

Testing method of in acetone

material insoluble for pesticides

1 Scope

This Standard specifies the determination of acetone material insoluble in pesticide original drug products.

2.1 Method summary

An appropriate amount of sample is dissolved with acetone. The insoluble is filtered hot and dried. Acetone insoluble content is calculated as the mass fraction of solid insoluble.

2.2 Reagents

Acetone. analytically pure.

2.4 Steps

Dry the glass sand heart hopper (110°C for about 1h) to constant weight (to the nearest of 0.0002g). Put it into the dryer and cool it for use. Weigh 10g of sample (to the nearest of 0.0002g). Place in Erlenmeyer flask. Add 150mL of acetone and shake to try to dissolve the sample. Then install a reflux condenser and heat it to boiling in a hot water bath. Stop heating after 5 min from boiling. Equip

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