

Approved by General Administration of Quality Supervision,



Inspection and Quarantine of the People's Republic of China

国家标准物质资源共享平台
www.ncrm.org.cn

GBW(E) 100066

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Certificate of Certified Reference Material

Certified Reference Material of Purity for Sodium cyclamate



Sample Number:

Date of Certification:

Producer: National Institute of Metrology

Address: No.18,Beisanhuan donglu Beijing Tel: +86-10-64524710

Fax: +86-10-64524716 e-mail: crm-service@nim.ac.cn

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The certified reference material is mainly used for the component detection of relevant sweetener in the field of medicine, foodstuff etc. It is also used for the quality control in the food manufacturing department and detection laboratory, the calibration of analytical instrument, the validation of analytical method etc.

1. Preparation

The certified reference material was prepared from the relevant sodium cyclamate pure substance. According its physical and chemical properties, the certified reference material was gained by extraction, crystallization method and then purified. The certified reference material was dried and disposed after the qualitative and primary analysis which meets the demand.

2. Traceability and certification

The CRM purity is certified by two accurate analytical methods with different principle, HPLC and nonaqueous titration. The traceability is ensured by using measuring method and measuring apparatus for metrology speciality.

3. Certified values and uncertainties

Code	Name	Certified value (%)	Relative expanded uncertainty (%) ($k=2$)
GBW (E) 100066	Certified Reference Material of Purity for Sodium cyclamate	99.3	0.7

The uncertainty inducted by the certified result of principle purity is in consideration in evaluation of uncertainty of this CRM.

4. Test of homogeneity and stability

According to the requirement of national criterion for primary certified reference materials, tests for this certified reference material were carried out through random sampling by HPLC-RID method. The minimum sampling amount is 5 mg. F-test method was used for homogeneities test, No statistically significant differences among bottles were observed at this sample size.

Random sampling at regular intervals was made to test the stability of the certified reference material. The effective duration for use of the certified reference

material is 2 year. The stability of the CRM are kept on motoring by maker during this period of this time, any change of the value will be informed to the customer in time.

5. Instructions for packing, storage and use

- packing: the certified reference material is packed in brown screw-capped amber glass bottles each containing less than 200mg.
- Storage and use: The certified reference material should be stored in normal temperature, lightproof , drying conditions. It should be dried in P₂O₅ ainer over 48 hours to eliminate moisture before use.
- The sampling of the certified reference material should be used as soon as possible after unsealing, and should be stored in stated conditions.



STATEMENT

1. The CRM is only limited in use of scientific research and analytical measurement. Any loss caused by improper use and storage by customer will not be respond by maker.
2. Please check the kind, number and package as soon as the sample arriving. The compensate do not relate to any loss except for the CRM.
3. The maker only answer for the intact certificate with CRM cachet of nim. Please keep the certificate appropriately.
4. Please contact with technical consultant section, if more information related to the use of the CRM is needed.

National Institution of metrology P.R. China

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