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

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**Chemicals - Determining anaerobic transformation test in liquid
manure**

化学品 液态粪肥中的厌氧转化试验

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Table of Contents

Preface	III
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
4 Experimental Principle	2
5 Test Substance Information	2
6 Reference material	3
7 Test Methods	3
8 Quality Assurance and Quality Control 7.	10
9 Data and Reports 8.	10
Appendix A (Informative) Sampling and Analysis of Salicylic Acid	10
Appendix B (Informative) Semi-static Experimental Culture System	11
Appendix C (Informative) Flow Experiment Culture System	14
Appendix D (Informative). Coefficient of Variation of Manure Substrate Parameters and DT50 Values (16%)	17
Appendix E (Informative) Report Example---Radioactivity Distribution Measured in Anaerobic Conversion Experiments in Liquid Manure	17
Reference	18

Foreword

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

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Hazardous Chemicals Management (SAC/TC251).

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Anaerobic Conversion Experiment in Chemical Liquid Manure

1 Scope

This document defines the terminology and definitions for anaerobic conversion experiments in liquid manure, establishes the experimental principle, and specifies the information on the test substance and reference.

The test methods are described, including requirements for materials, test procedures, quality assurance and quality control, data and reporting.

This document is applicable to the testing and evaluation of the anaerobic transformation of chemicals in liquid manure; and is used to determine the effects of chemicals on liquid manure.

Conversion rate, as well as the properties and formation and degradation rates of the conversion products.

This document applies to non-volatile or slightly volatile substances (Henry's law constant $< 100 \text{ Pa}\cdot\text{m}^3/\text{mol}$ or $< 1\cdot 10^{-3} \text{ atm}\cdot\text{mol}^{-1}$).

This document covers all chemicals that are water-soluble or slightly soluble in water (m^3/mol) and can be accurately analyzed. It does not apply to volatile chemicals.

2 Normative references

GB/T 21796

GB/T 21845

GB/T 21851

GB/T 21852

GB/T 21853

GB/T 21855

GB/T 22052

GB/T 22228

GB/T 22229

GB/T 27854

GB/T 27855

GB/T 42426

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 50% decay time (disappearancetime50; dissipationtime50; DT50)

The time required for the concentration of the test substance to decrease to 50% of its initial concentration.

3.2 90% decay time (disappearancetime90; dissipationtime90; DT90)

The time required for the concentration of the test substance to decrease to 10% of the initial concentration.