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

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**Crop protection equipment - Test method for the determination
of drainable volume and its concentration**

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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 of Standardization Documents" Drafting.

The translation method used in this document is equivalent to the ISO 16236.2013 "Tests for determining the volume and concentration of dischargeable liquid for plant protection machinery method".

This document adds a chapter "Normative Reference Documents".

1 Scope

This document stipulates that the sprayer passes through the discharge port of the chemical tank and other discharge outlets (such as water suction filter,

Adding liquid connection device) When emptying the diluted residual liquid in the chemical liquid tank, the test method for measuring the volume and concentration of the discharged liquid.

This document applies to newly produced and in-use agricultural sprayers for spraying pesticides and liquid fertilizers.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Drainable volume

The volume of liquid that can be collected from the discharge port of the chemical tank and/or other water outlets when the sprayer is emptied after the cleaning process.

3.2

Rinsingsystem

It is installed on the sprayer to clean the inside of the sprayer machine (including the liquid tank).

4 Test conditions

Test liquid temperature. 5 degrees C~30 degrees C;

Temperature. 5 degrees C~30 degrees C;

Relative air humidity. >30%.

5.1 Test liquid

The aqueous solution containing about 0.0001% fluorescent agent (ultra pure) is preferred, and other indicators that have been proven to have the same test performance can also be used.

Trace fluid.

5.2 Test procedure

5.2.1 The test should be carried out with the sprayer in a horizontal fixed position, and the entire inner surface of the sprayer should be carefully cleaned before the start of the test.

5.2.2 Add water to the chemical liquid tank through the filling port of the chemical liquid tank to at least 10% of the rated volume of the chemical liquid tank, and add approximately

1mg tracer, and run the stirring device. If the sprayer is equipped with an inhalation dosing device, it should not be used for dosing in order to avoid contamination.