

CoreFocus Report

No.296

LC

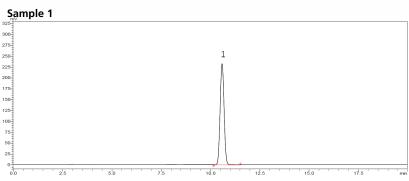
Reversed-phase

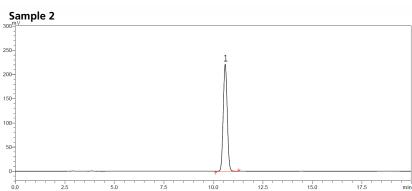
**Shim-pack Series** 

## Shim-pack<sup>™</sup> GIST C18

# **Analysis of Mesotrione Drug Substance**

### Keywords: pesticide, herbicide





#### 1. Mesotrione

Sample 1: Reference solution Weigh 0.1 g (accurate to 0.0002 g) of Mesotrione standard in a 50 mL volumetric flask, dilute to the mark with acetonitrile, ultrasonically shake for 5 min to dissolve the sample, cool to room temperature, and shake well. Use a pipette to transfer 5 mL of the above solution into a 50 mL volumetric flask, dilute to the mark with mobile phase, and shake well.

### Sample 2: Test solution

Weigh the dried sample containing 0.1 g of Mesotrione (accurate to 0.0002 g) into a 50 mL volumetric flask, dilute to the mark with acetonitrile, and shake it with ultrasonic for 5 min to dissolve the sample, cool to room temperature, and shake uniform. Use a pipette to transfer 5 mL of the above solution into a 50 mL volumetric flask, dilute to the mark with mobile phase, and shake well.

: Shim-pack GIST C18 (250 mm x 4.6 mm I.D., 5 μm), P/N : 227-30017-08 Column

Mobile phase : Acetonitrile: Water (pH 3.0) containing phosphoric acid = 40: 60

Flow rate : 1.0 mL/min Column temp. : 30 °C Injection vol.

SHIMADZU LabTotal<sup>™</sup> Vial for LC/LCMS, P/N: 227-34001-01

: UV at 270 nm Detection

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