

CoreFocus
Report
No.297

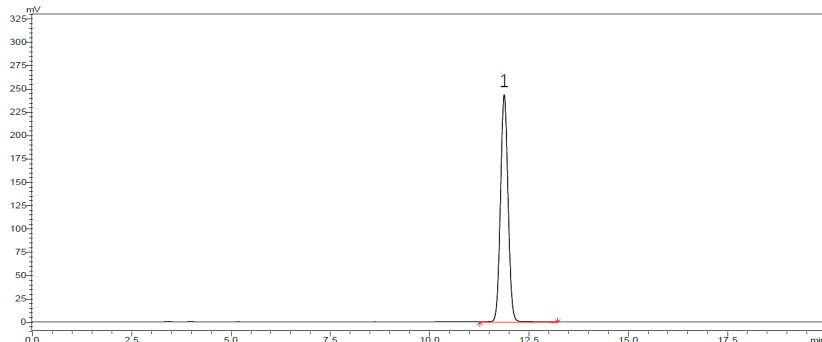
LC Reversed-phase Shim-pack™ Series

Shim-pack Scepter™ C18

Analysis of Mesotrione Drug Substance

Keywords: pesticide, herbicide

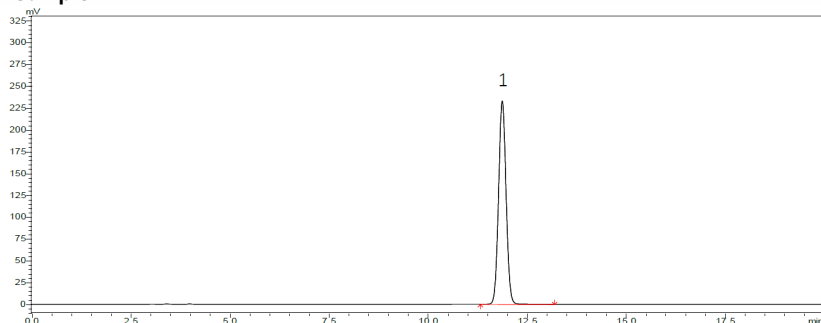
Sample



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



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.

Column	: Shim-pack Scepter C18 (250 mm x 4.6 mm I.D., 5 µm), P/N : 227-31020-06
Mobile phase	: Acetonitrile : Water (pH 3.0) containing phosphoric acid = 40 : 60
Flow rate	: 1.0 mL/min
Column temp.	: 30 °C
Injection vol.	: 5 µL
Vial	: SHIMADZU LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 270 nm

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