

# CoreFocus Report

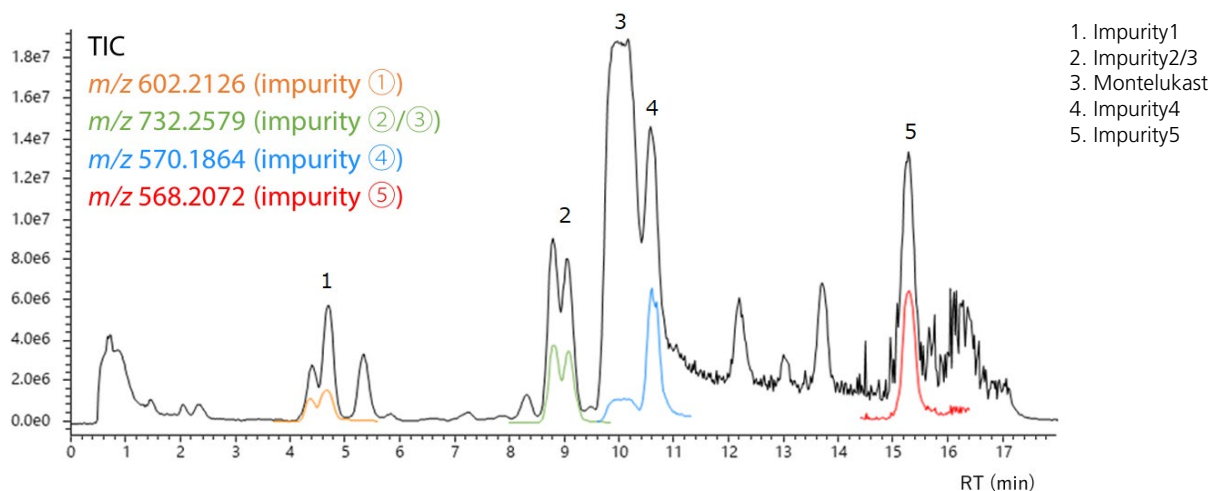
No.560

LC-MS Reversed-phase Shim-pack™ Series

## Shim-pack Scepter™ Phenyl-120

## Analysis of Impurities in Montelukast Sodium

Keywords: leukotriene receptor antagonist



1. Impurity1
2. Impurity2/3
3. Montelukast
4. Impurity4
5. Impurity5

### [UHPLC conditions] (Nexera™ X3)

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Column               | : Shim-pack Scepter Phenyl-120,<br>50 mm x 2.1 mm I.D., 1.9 µm <sup>†</sup> |
| Mobile phase A       | : Water/Formic acid = 2000/3                                                |
| Mobile phase B       | : Acetonitrile/Formic acid = 2000/3                                         |
| Flow rate            | : 0.25 mL/min                                                               |
| Time program<br>(%B) | : 45 % (0-3 min) – 65 % (16 min) –<br>45 % (16.1-25 min)                    |
| Column oven<br>temp. | : 30 °C                                                                     |
| Injection vol.       | : 10 µL                                                                     |
| Detection            | : UV 238 nm                                                                 |

1\*: P/N : 227-31063-03

### [MS conditions] (LCMS-9030)

|                     |                  |
|---------------------|------------------|
| Ionization          | : ESI positive   |
| Mode                | : MS, MS/MS scan |
| Nebulizing gas flow | : 3.0 L/min      |
| Drying gas flow     | : 10.0 L/min     |
| Heating gas flow    | : 10.0 L/min     |
| DL temp.            | : 250 °C         |
| Block heater temp.  | : 400 °C         |
| Interface temp.     | : 300 °C         |

Source : Application News 01-00017 ([JP,ENG](#))

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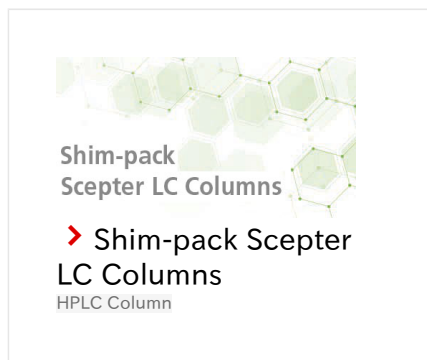
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