

CoreFocus Report

No.574

LC-MS

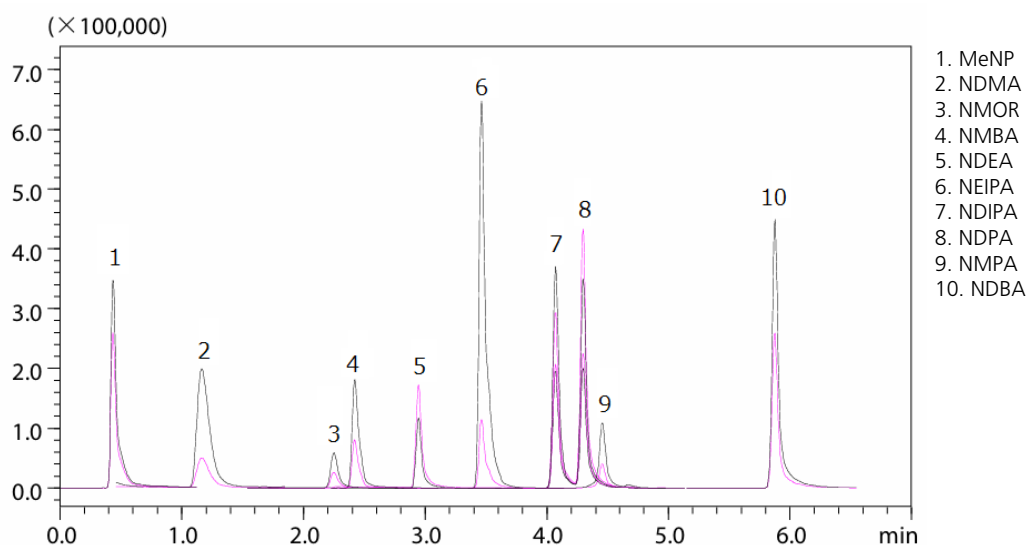
Reversed-phase

Shim-pack™ Series

Shim-pack Velox™ Biphenyl

Analysis of 10 Nitrosamines in an Active Pharmaceutical Ingredient

Keywords: active pharmaceutical ingredient



[HPLC conditions] (Nexera™ X3)

Column	: Shim-pack Velox Biphenyl, 100 mm x 2.1 mm I.D., 2.7 μm ¹
Mobile phases	: A) H ₂ O/Formic acid = 1000 : 0.5 B) Methanol/Formic acid = 1000 : 0.5
Gradient program	: B conc. 1.0 % (0.00-1.20 min.) – 35.0 % (2.00 min.) – 60.0 % (5.30 – 7.00 min.) – 98.0 % (7.01 – 10.00 min.) – 1.0 % (10.01-14.00 min.) Valve position : loading (0 min.) – analysis (0.25 min.) – loading (4.65 min.) – analysis (4.9 min.) – loading (7.0 min.)
Flow rate	: 0.60 mL/min
Column temp.	: 45 °C
Injection vol.	: 20 μL
Detection	: SPD-M40 at 254 nm (semi micro cell)

1*: P/N: 227-32015-03

[MS conditions] (LCMS-8060NX²)

Ionization	: APCI (Positive mode)
Probe voltage	: 4.0 kV
Mode	: MRM
Nebulizing gas flow	: 4.0 L/min
Drying gas flow	: 3 L/min
DL temp.	: 150 °C
Heat block temp.	: 200 °C
Interface temp.	: 300 °C

2*: Hydrocarbon filter used on nitrogen gas line (P/N: 225-42793-01)

Source : Application News 01-00400 ([JP.ENG](#))

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