

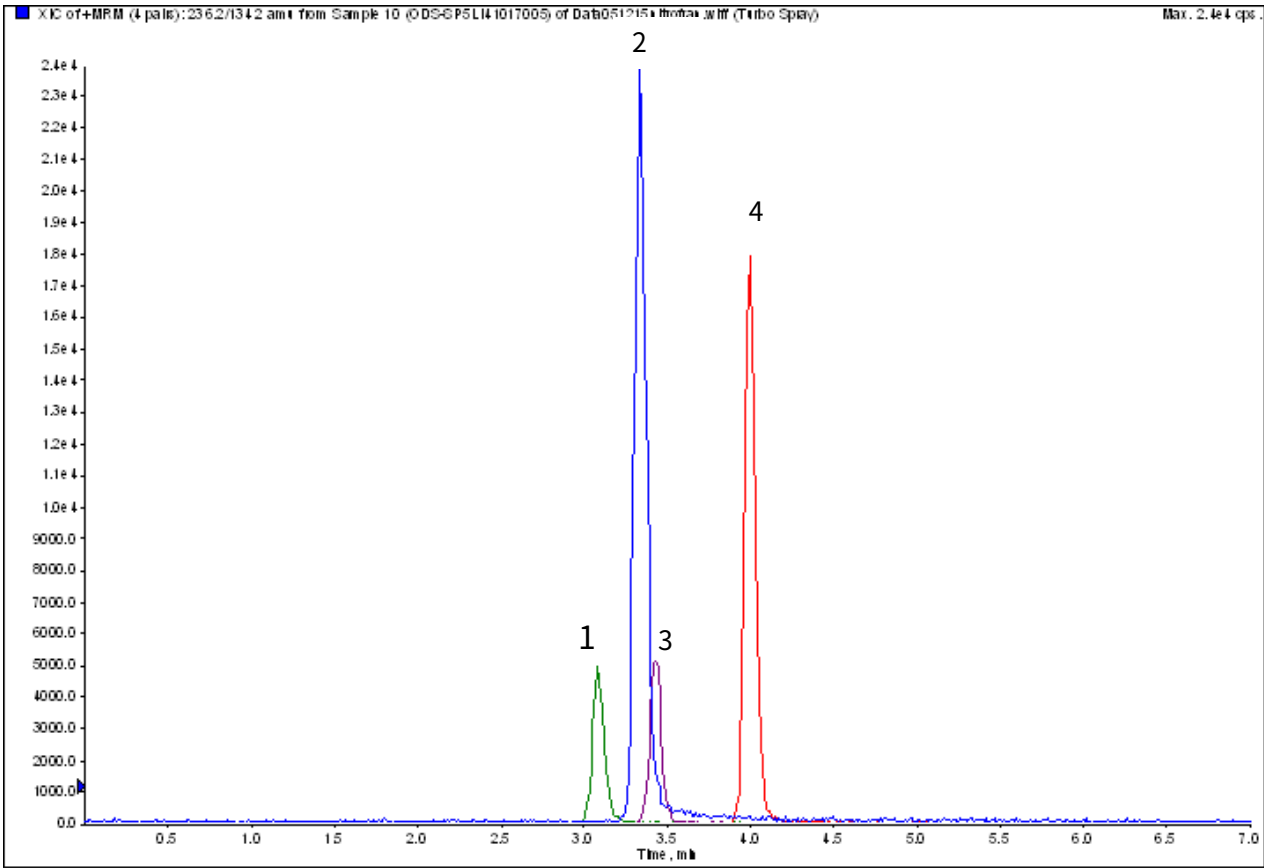
InertSearch™ for LC

Inertsil® Applications

Analysis of Nitrofuran Metabolite by Pre-column HPLC

Data No. LA608-0696

Nitrofurans	Major metabolite
nitrofurantoin	1-aminohydantoin(AHD)
furazolidone	3-amino-2-oxazolidinone (AOZ)
nitrofurazone	Semicarbazide(SEM)
furaltadone	3-amino-5-methylmorpholino-2-oxazolidinone (AMOZ)



Conditions

System : Symbiosis Pharma system (LC mode)
API 2000™
Column : Inertsil ODS-SP (3 µm, 50 x 2.1 mm I.D)
Column Cat. No. : 5020-02812
Eluent : A) CH₃OH
B) 5 mM CH₃COONH₄
A/B = 30/70 - 5 min - 90/10 - 5 min - 90/10, v/v
Flow Rate : 0.2 mL/min
Col. Temp. : 40 °C
Detection : LC/MS/MS (API 2000™: ESI, Positive, MRM)
Injection Vol. : 10 µL
Analyte : Nitrofran metabolites

Analyte:	Q1	Q3
1. 2-NBA-AHD (10 µg/L)	249.0	133.8
2. 2-NBA-AOZ (10 µg/L)	236.2	134.2
3. 2-NBA-SEM (10 µg/L)	209.1	166.1
4. 2-NBA-AMOZ (10 µg/L)	335.3	291.2

2-NBA: 2-nitrobenzaldehyde