

CoreFocus
Report
No.335

GC

FID

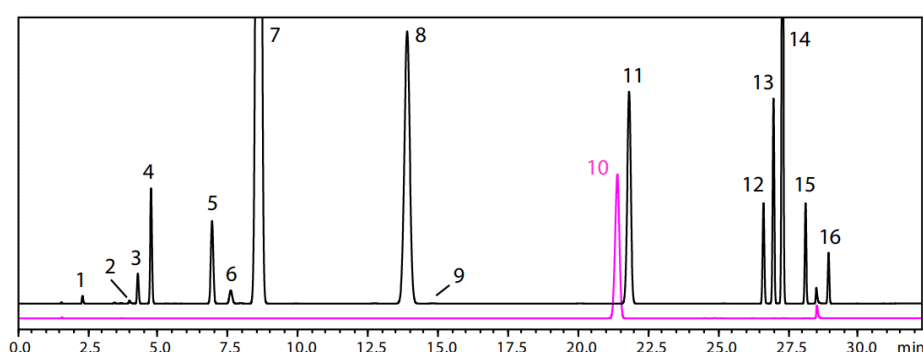
HS

SH Series

SH-I-624Sil MS

Analysis of Residual Solvents in Pharmaceuticals

Keywords: JP17 Supplement II, USP 467



1. Methanol
2. Acetonitrile
3. Methylene chloride (DCM)
4. trans-1,2-Dichloroethylene
5. cis-1,2-Dichloroethylene
6. Tetrahydrofuran
7. Cyclohexane
8. Methyl cyclohexane
9. 1,4-Dioxane
10. Methylisobutylketone (MIBK)
11. Toluene
12. Chlorobenzene
13. Ethylbenzene
14. m,p-Xylene
15. o-Xylene
16. Cumene

Main Unit	: Nexis™ GC-2030
Detector	: FID-2030 flame ionization detector
Column	: SH-I-624Sil MS (30 m x 0.53 mm I.D. df = 3 μm), P/N: 227-36078-01
Column Temp.	: 40 °C(20 min) - 10 °C/min - 240 °C(20 min) Total 60 min
Injection Mode	: Split 1:5
Carrier Gas Controller	: Linear Velocity (He) 35 cm/s
Detector Temp.	: 250 °C
Detector Gas	: H ₂ 32 mL/min, Air 200 mL/min
Make up	: 24 mL/min (He)
Injection Volume	: 1 mL

HS-20	
Oven Temp.	: 80 °C
Sample Line Temp.	: 90 °C
Transfer Line Temp.	: 105 °C
Vial Volume	: 20 mL
Vial Heat-retention Time	: 45 min
Vial Pressurization Time	: 1 min
Vial Pressure	: 68.9 kPa
Loading Time	: 0.5 min
Needle Flush Time	: 5 min

Source : Application News G324 ([JP](#), [ENG](#))

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