

CoreFocus Report

No.557

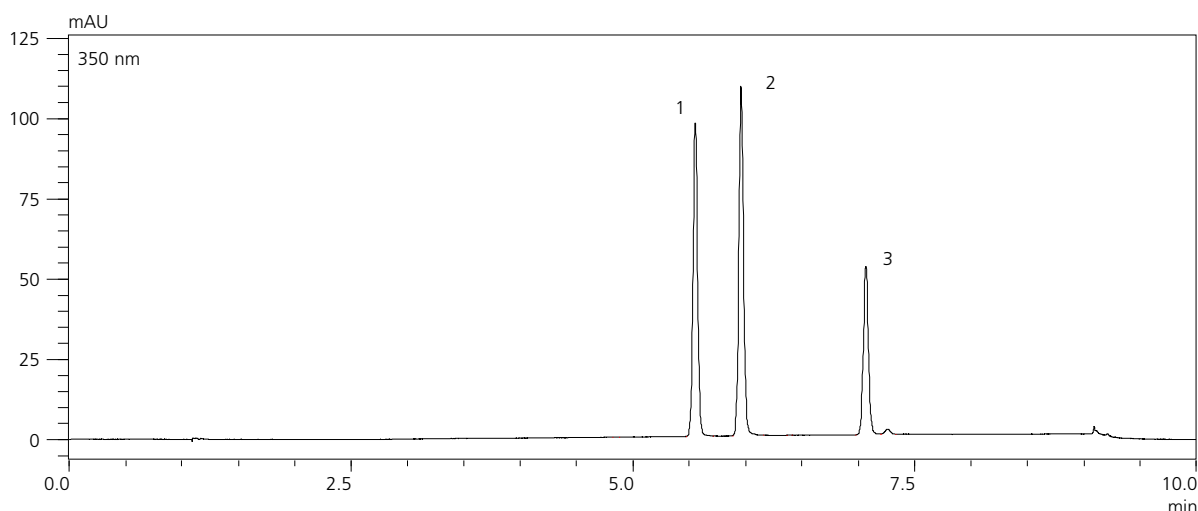
SFC

Shim-pack Series

Shim-pack™ UC-Diol II

Analysis of Organic Light-Emitting Diode (OLED) material

Keywords: Organic Light-Emitting Diode, Polycyclic aromatic, NPD 123847-85-8 (CAS no.), Methoxy TPD 169685-34-1 (CAS no.), TPD 65181-78-4 (CAS no.)



1. N,N'-Bis(3-methylphenyl)-N,N'-diphenylbenzidine (TPD)
2. N,N'-Bis(4-methoxy-2-methylphenyl)-N,N'-diphenylbenzidine (Methoxy TPD)
3. N,N'-Bis(1-naphthyl)-N,N'-diphenylbenzidine (NPD)
(250 mg/L each in tetrahydrofuran)

System	: Nexera™ UC
Column	: Shim-pack UC-Diol II (250 mm x 4.6 mm I.D., 5 μm) P/N : 227-32606-22 (Japan), 227-32606-02 (except Japan)
Mobile phase	: A) CO ₂ B) Acetonitrile
Time program	: B conc. 2% (0 – 1.00 min) → 40% (6.00 min – 8.00 min) → 2% (8.01 min – 10.00 min)
Flow rate	: 3.0 mL/min
Column temp.	: 40°C
Injection volume	: 5 μL
BPR pressure	: 10 Mpa
BPR temperature	: 40°C
Detection	: UV 350 nm (reference 400 nm)
Vial	: SHIMADZU LabTotal™ for LC 1.5 mL, Glass, P/N : 227-34001-01

Source : Application News 01-00135 ([JP](#), [ENG](#))

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