



Doug Smith
R&D Technician
10+ years of service!

Enantiomers Analysis

Convenient chiral column kits, based on sample type. Enantiomeric profile and confirmational identification of individual chiral compounds.

- Broad range of columns and selectivities.
- Rugged, highly stable columns.
- Extended column lifetime.
- Convenience and cost savings.

For phase descriptions, or to order columns separately, see page 61.

Pharmaceutical Chiral Column Kits

(fused silica)

Dimensions & Columns	cat.#
30m, 0.25mm ID, 0.25 μ m Rt TM - β DEXcst & Rt TM - β DEXsm columns	13190
30m, 0.32mm ID, 0.25 μ m Rt TM - β DEXcst & Rt TM - β DEXsm columns	13191

Environmental Chiral Column Kits

(fused silica)

Dimensions & Columns	cat.#
30m, 0.25mm ID, 0.25 μ m Rt TM - β DEXcst & Rt TM - β DEXsm columns	13192
30m, 0.32mm ID, 0.25 μ m Rt TM - β DEXcst & Rt TM - β DEXsm columns	13193

Juices Chiral Column Kits

(fused silica)

Dimensions & Columns	cat.#
30m, 0.25mm ID, 0.25 μ m Rt TM - β DEXse, Rt TM - β DEXsm & Rt TM - γ DEXsa columns	13194
30m, 0.32mm ID, 0.25 μ m Rt TM - β DEXse, Rt TM - β DEXsm & Rt TM - γ DEXsa columns	13195

Essential Oils Chiral Column Kits

(fused silica)

Dimensions & Columns	cat.#
30m, 0.25mm ID, 0.25 μ m Rt TM - β DEXsm, Rt TM - β DEXse, Rt TM - β DEXsa, & Rt TM - β DEXsp columns	13196
30m, 0.32mm ID, 0.25 μ m Rt TM - β DEXsm, Rt TM - β DEXse, Rt TM - β DEXsa, & Rt TM - β DEXsp columns	13197

please note

Application-specific chiral column kits offer convenience and cost savings.

tech tip

Chiral selectivity improves significantly by realizing lower elution temperatures.

This can be achieved by:

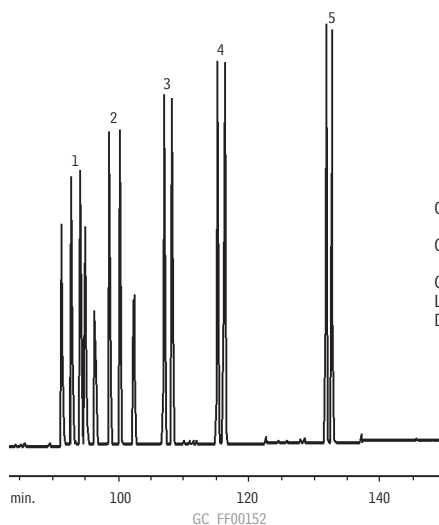
Faster linear velocities (80cm/sec.) with hydrogen carrier gas.

Slower temperature ramp rates (1–2°C/min.).

Appropriate minimum operating temperature (40 or 60°C).

On-column concentrations of 50ng or less.

Complex γ -lactones mix resolved on an RtTM- β DEXcst column.



1. (+/-)- γ -heptalactone
2. (+/-)- γ -octalactone
3. (+/-)- γ -nonalactone
4. (+/-)- γ -decalactone
5. (+/-)- γ -dodecalactone

Column: RtTM- β DEXcst, 30m, 0.32mm ID, 0.25 μ m (cat.# 13102)
 Oven temp.: 60°C (hold 1 min.) to 200°C @ 1°C/min.
 Carrier gas: hydrogen
 Linear velocity: 40cm/sec. set @ 60°C
 Det.: FID @ 220°C

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Applications

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