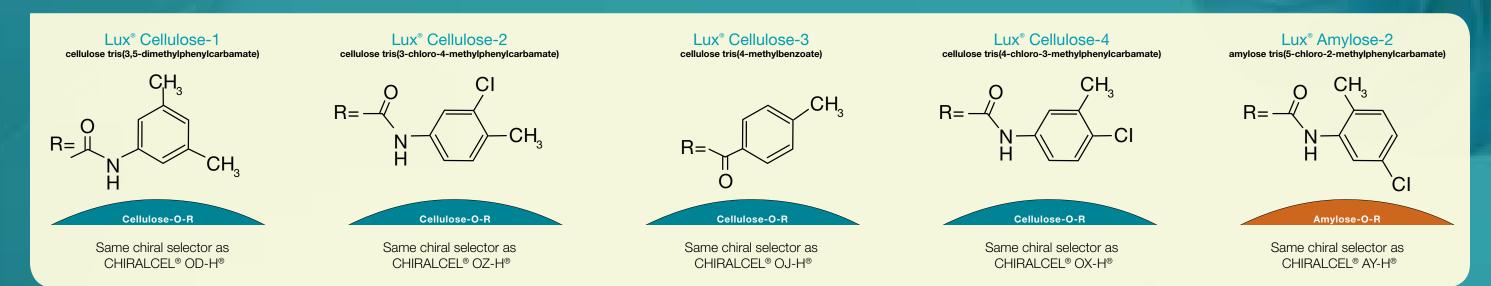
Simplified Chiral HPLC/SFC Column Screening Strategies

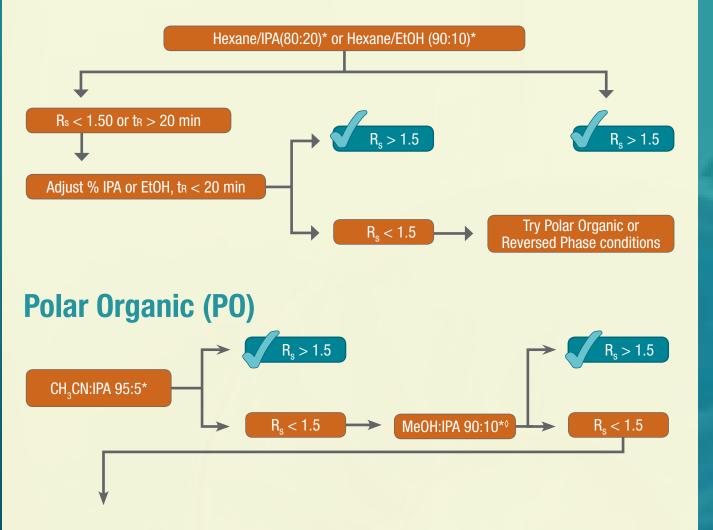




HPLC Screen

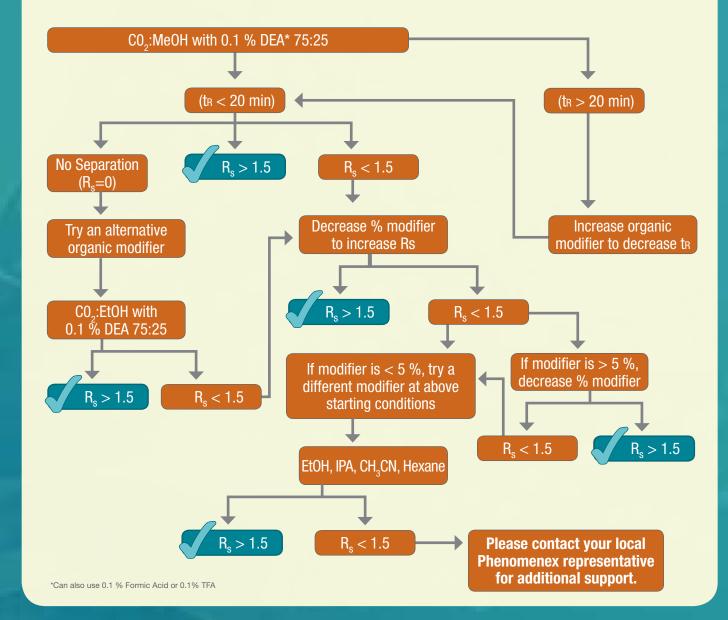
Tip We suggest screening all five Lux phases to identify the optimal chiral separation.

Normal Phase (NP)



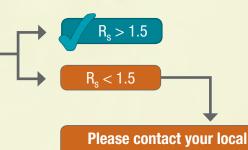
SFC Screen

Tip We suggest screening all five Lux phases to identify the optimal chiral separation.



Reversed Phase (RP)

Acidic Compounds 1. CH₂CN:0.1 % Formic Acid or 0.1 % Acetic Acid 2. MeOH:0.1 % Formic Acid or 0.1 % Acetic Acid **Neutral Compounds** 1. CH₃CN:Water 2. MeOH:Water **Basic Compounds** 1. CH₂CN w. 20 mM NH₄HCO₃ + 0.1 % DEA Phenomenex representative 2. Me³OH w. 20 mM NH¹₄HCO³₄ + 0.1 % DEA for additional support.



R

Notes: This screening strategy can be started at any step depending on the properties of the racemates common dimension used in chiral screening is 250 x 4.6 mm. For faster screening, use shorter columns. Use 0.1 % DEA with basic and neutral compounds and 0.1 % HCOOH with acidic and neutral compounds Changing % IPA in methanol can be occasionally beneficial

Key: IPA: Isopropanol; DEA: Diethylamine; MeOH: Methanol; CH₃CN: Acetonitrile; EtOH: Ethanol; CH₃COONH₄: Ammonium acetate; HCOOH: Formic acid; NH₄HCO₃: Ammonium bicarbonate; CO₂: Carbon Dioxide

Why Choose Lux Chiral Columns?

- Stable in normal phase, polar organic, SFC, and reversed phase conditions
- 3 µm and 5 µm packed columns, as well as, 10 µm and 20 µm bulk media for scale up
- Pressure stable up to 300 bar
- High efficiency and loading capacity

guarantee

If Lux analytical columns (≤ 4.6 mm ID) do not provide at least an equivalent or better separation as compared to a competing column of the same particle size, similar phase and dimensions, return the column with comparative data within 45 days for a FULL REFUND.

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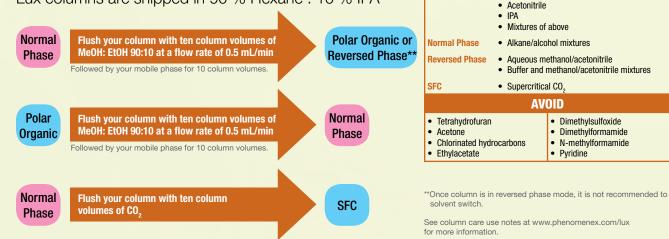
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WEB: www.phenomenex.com/lux

Solvent Considerations

Solvent Switching

Lux columns are shipped in 90 % Hexane : 10 % IPA



FREE Chiral Screening!

For more information or to begin a project today, please contact your local Phenomenex representative.

You can also visit us online: www.phenomenex.com/phenologix



or email us at: phenologix@phenomenex.com

COMPATIBLE

Methanol

