

EASY CHIRAL METHOD DEVELOPMENT SOLUTIONS

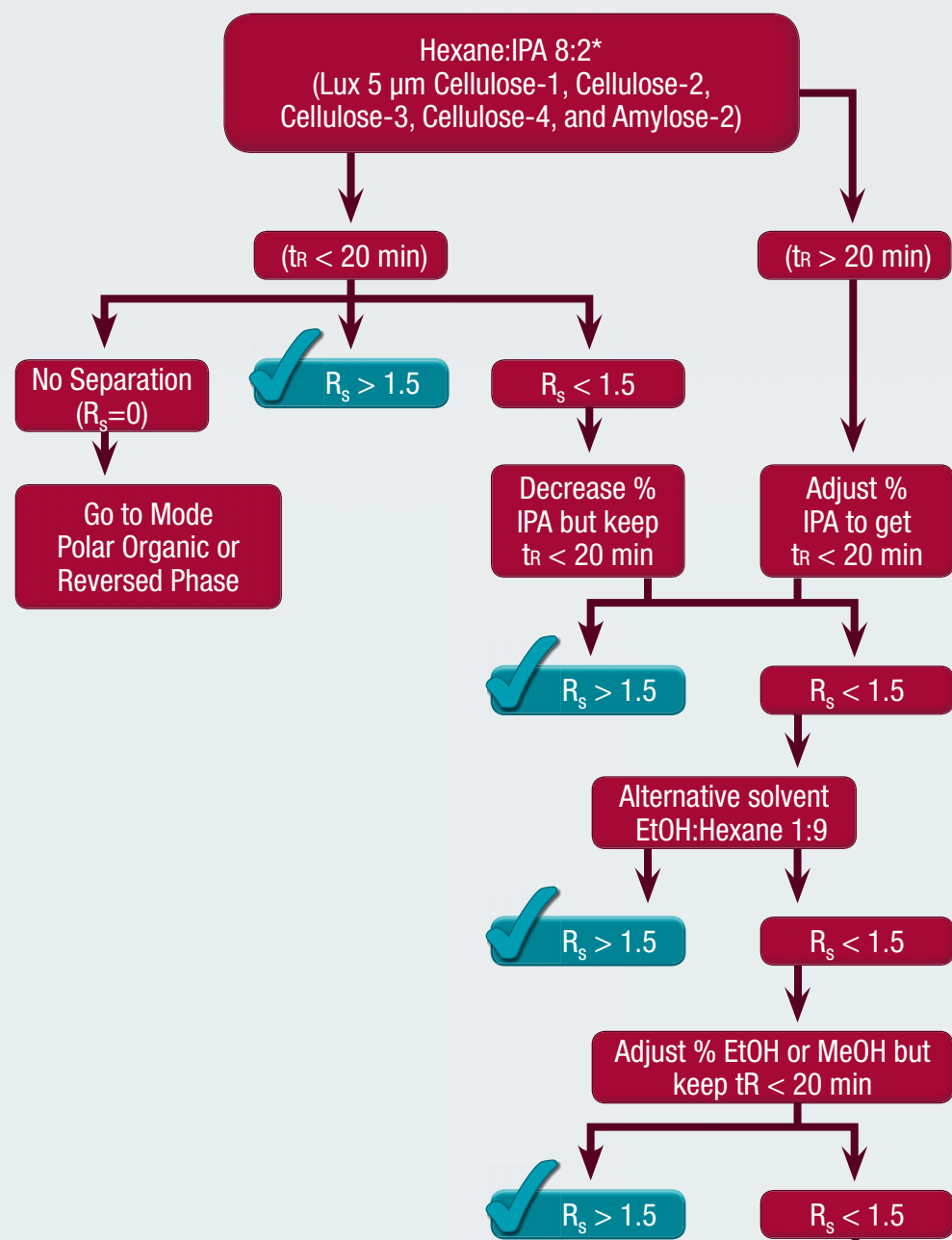
Simplify Your Screening Strategy

With five unique Lux[®] stationary phases to screen, achieving optimal chiral separation is easier than ever

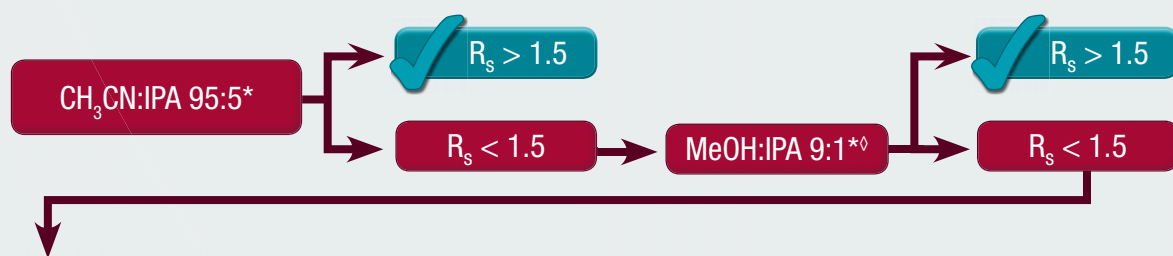
<p>Lux[®] Cellulose-1 cellulose tris(3,5-dimethylphenylcarbamate)</p> <p>Cellulose Backbone Guaranteed Replacement For CHIRALCEL[®] OD-H[®]</p>	<p>Lux[®] Cellulose-2 cellulose tris(3-chloro-4-methylphenylcarbamate)</p> <p>Cellulose Backbone Chlorinated Cellulose Phase</p>	<p>Lux[®] Cellulose-3 cellulose tris(4-methylbenzoate)</p> <p>Cellulose Backbone Cellulose Ester Chiral Selector</p>	<p>Lux[®] Cellulose-4 cellulose tris(4-chloro-3-methylphenylcarbamate)</p> <p>Cellulose Backbone Novel Chlorinated Cellulose Phase</p>	<p>Lux[®] Amylose-2 amylose tris(5-chloro-2-methylphenylcarbamate)</p> <p>Amylose Backbone Chlorinated Amylose Phase</p>
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HPLC SCREEN

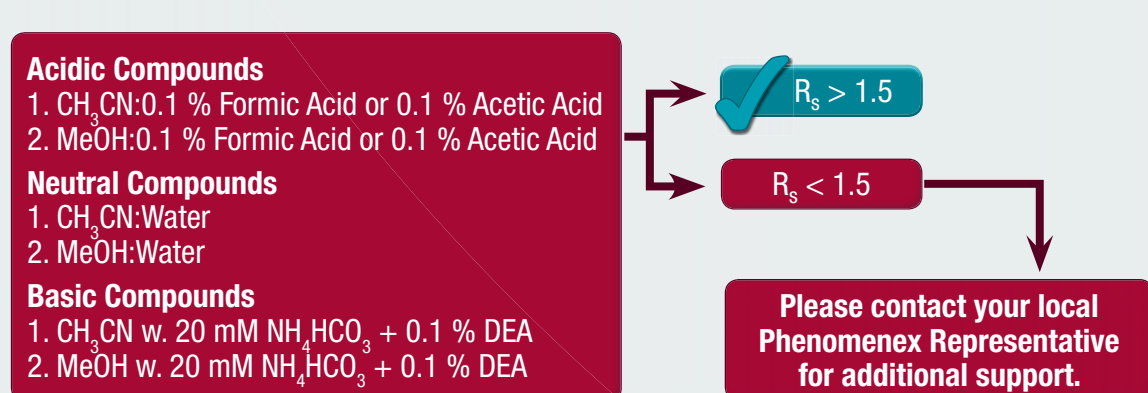
Normal Phase



Polar Organic



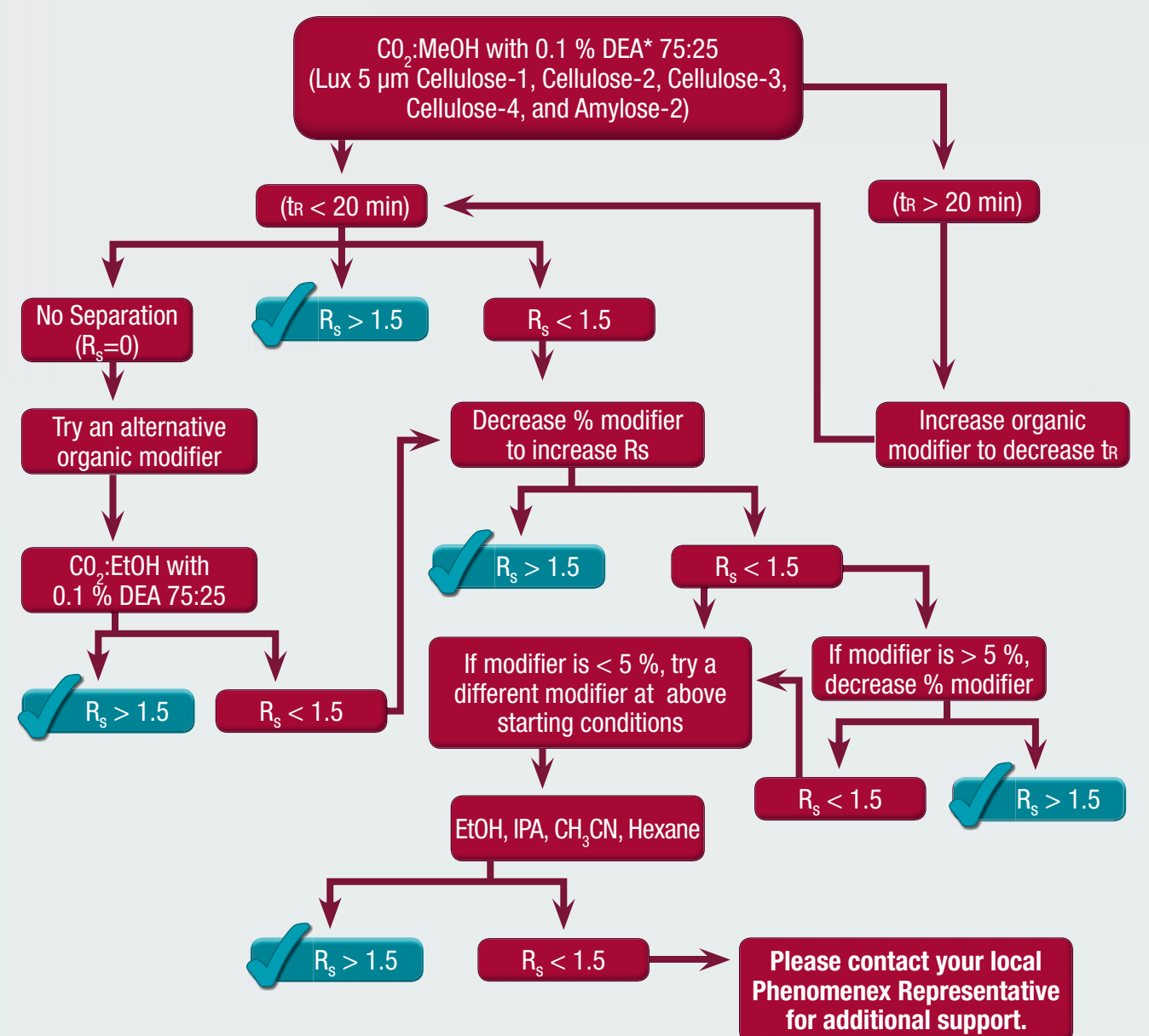
Reversed Phase



Notes: This screening strategy can be started at any step depending on the properties of the racemates. A common dimension used in chiral screening is 250 x 4.6 mm.
* 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

SFC SCREEN

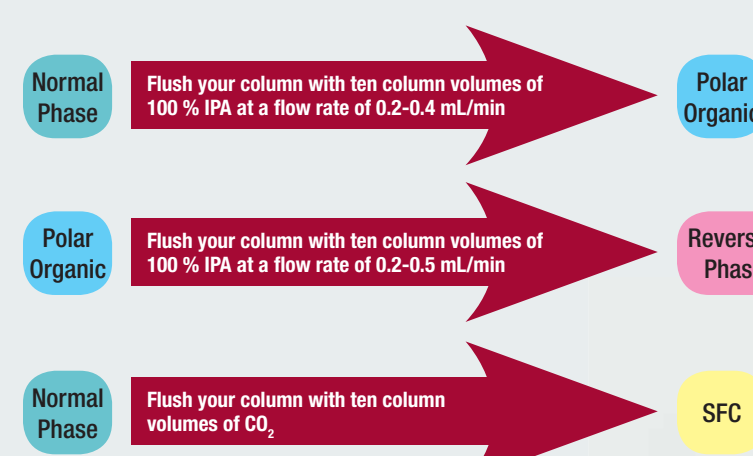


*Can also use 0.1 % Formic Acid or 0.1% TFA

SOLVENT CONSIDERATIONS

Solvent Switching

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



COMPATIBLE	
Polar Organic	<ul style="list-style-type: none"> Methanol Acetonitrile IPA Mixtures of above
Normal Phase	<ul style="list-style-type: none"> Alkane/alcohol mixtures
Reversed Phase	<ul style="list-style-type: none"> Aqueous methanol/acetonitrile Buffer and methanol/acetonitrile mixtures
SFC	<ul style="list-style-type: none"> Supercritical CO₂
AVOID	
<ul style="list-style-type: none"> Tetrahydrofuran Acetone Chlorinated hydrocarbons Ethylacetate 	<ul style="list-style-type: none"> Dimethylsulfoxide Dimethylformamide N-methylformamide Pyridine

Chiral Screening and Separation Services

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