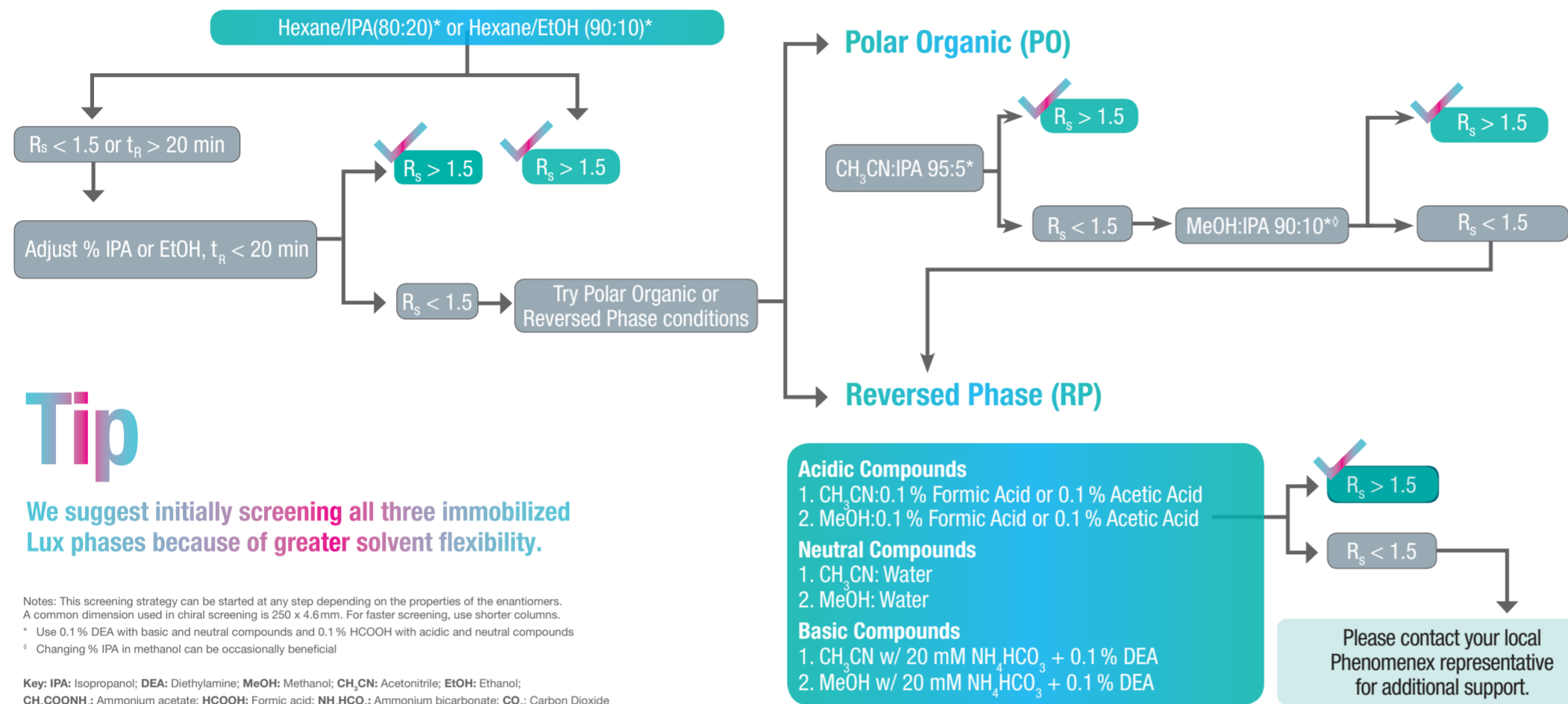


Simplified Chiral HPLC/SFC Column Screening Strategies

Immobilized			Coated						
Lux i-Amylose-1 Amylose tris (3,5-dimethylphenylcarbamate)	Lux i-Amylose-3 Amylose tris (3-chloro-5-methylphenylcarbamate)	Lux i-Cellulose-5 Cellulose tris (3,5-dichlorophenylcarbamate)	Lux Amylose-1 Amylose tris (3,5-dimethylphenylcarbamate)	Lux Amylose-2 Amylose tris (5-chloro-2-methylphenylcarbamate)	Lux Cellulose-1 Cellulose tris (3,5-dimethylphenylcarbamate)	Lux Cellulose-2 Cellulose tris (3-chloro-4-methylphenylcarbamate)	Lux Cellulose-3 Cellulose tris (4-methylbenzoate)	Lux Cellulose-4 Cellulose tris (4-chloro-3-methylphenylcarbamate)	
Guaranteed Alternative to CHIRALPAK IA [®] and IA-3	Guaranteed Alternative to CHIRALPAK IG [®] and IG-3	Guaranteed Alternative to CHIRALPAK IC [®] and IC-3	Guaranteed Alternative to CHIRALPAK AD [®] , AD-H [®] , AD-3, AD-RH [®] , and AD-3R	Guaranteed Alternative to CHIRALPAK AY [®] , AY-H [®] , AY-3, AY-RH, and AY-3R	Guaranteed Alternative to CHIRALCEL [®] OD [®] , OD-H [®] , OD-3, OD-RH [®] , and OD-3R	Guaranteed Alternative to CHIRALCEL OZ, OZ-H [®] , OZ-3, OZ-RH, and OZ-3R	Guaranteed Alternative to CHIRALCEL OJ [®] , OJ-H [®] , OJ-3, OJ-RH [®] , and OJ-3R	Guaranteed Alternative to CHIRALCEL OX-H, OX-3, OX-RH, and OX-3R	

HPLC Screen

Normal Phase (NP)



Tip

We suggest initially screening all three immobilized Lux phases because of greater solvent flexibility.

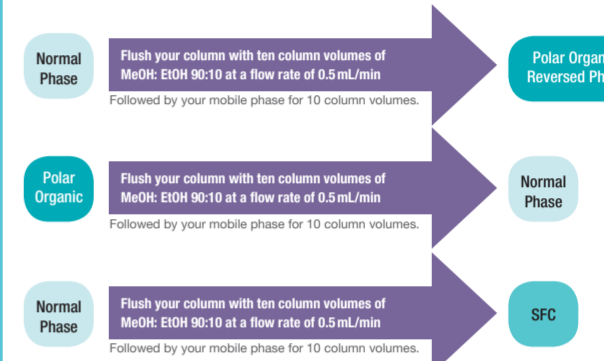
Notes: This screening strategy can be started at any step depending on the properties of the enantiomers. A common dimension used in chiral screening is 250 x 4.6mm. For faster screening, use shorter columns.
* Use 0.1% DEA with basic and neutral compounds and 0.1% HCOOH with acidic and neutral compounds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

Key: IPA: Isopropanol; DEA: Diethylamine; MeOH: Methanol; CH₂CN: Acetonitrile; EtOH: Ethanol; CH₂COONH₄: Ammonium acetate; HCOOH: Formic acid; NH₄HCO₃: Ammonium bicarbonate; CO₂: Carbon Dioxide

Solvent Considerations

Solvent Switching

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



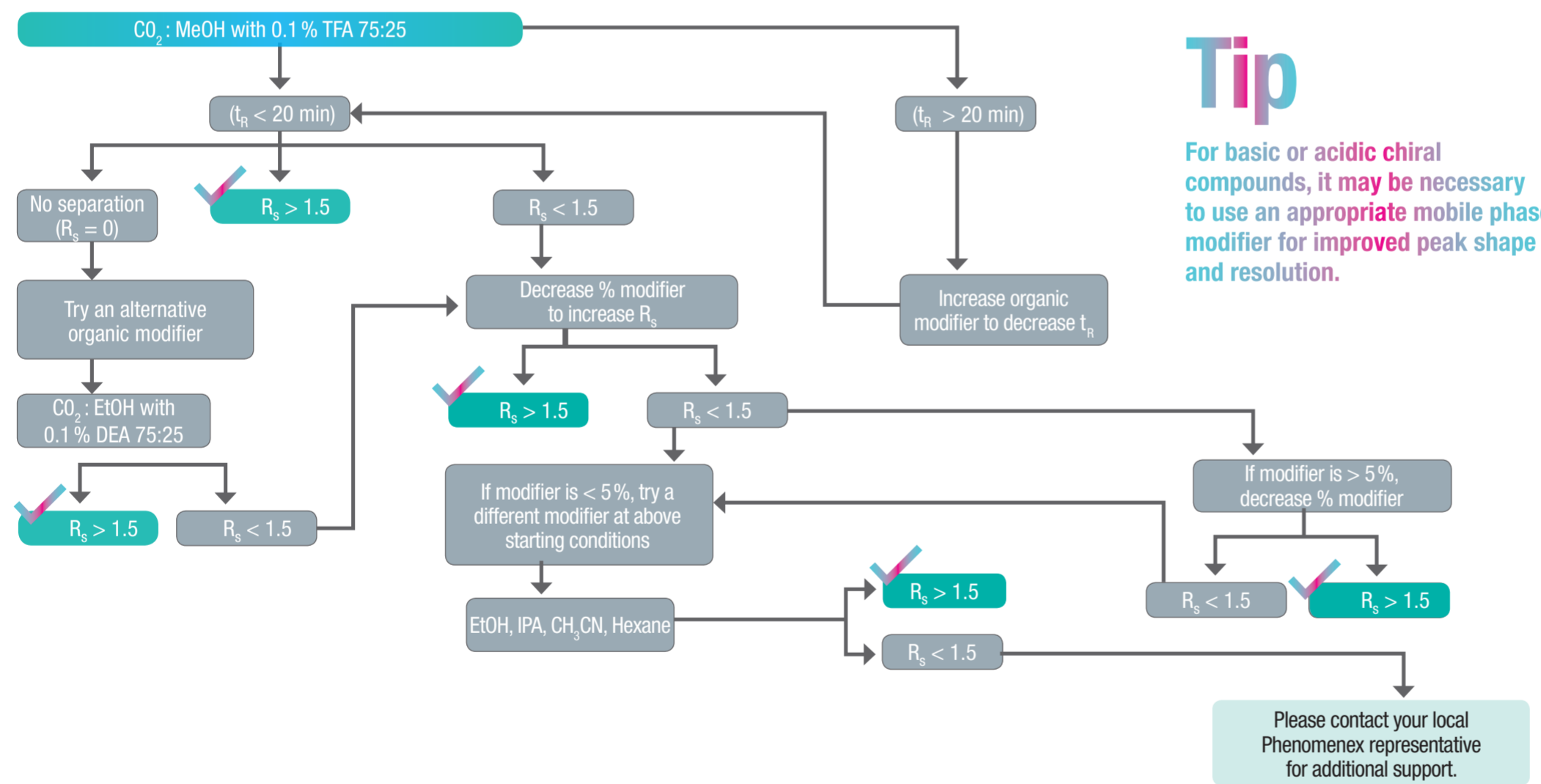
**Once coated phase column is in reversed phase mode, it is not recommended to solvent switch.
See column care and use notes at www.phenomenex.com/lux for more information.

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

SFC Screen



FREE Chiral Screening

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

You can also visit us online:

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