



Blossmate Chiral Series

Your Chiral Separation Partner - One Platform, All Scales.

High Selectivity, High Loading Capacity, Consistent and Reproducible Results.

Welch Blossmate chiral stationary phases are designed for high-performance enantiomeric separations in analytical, preparative, and bulk purification scale. Available in both coated and immobilized polysaccharide phases, Blossmate delivers selectivity, reproducibility, and scalability from R&D through commercial purification.

Blossmate Chiral Phase Overview

Welch Chiral Phase	Phase	Structure	Type	Equivalent to
Blossmate Amy-D	Amylose tris (3,5-dimethylphenyl carbamate)		Coated	AD
Blossmate Cellu-D	Cellulose tris (3,5-dimethylphenyl carbamate)		Coated	OD
Blossmate Amy-S	Amylose tris ((S)-α-methylbenzyl carbamate)		Coated	AS
Blossmate Cellu-J	Cellulose tris (4-methylbenzoate)		Coated	OJ
Blossmate Cellu-Z	Cellulose tris (3-chloro-4-methylphenyl carbamate)		Coated	OZ
Blossmate IMMA	Amylose tris (3,5-dimethylphenyl carbamate)		Immobilized	IA
Blossmate IMMB	Cellulose tris (3,5-dimethylphenyl carbamate)		Immobilized	IB
Blossmate IMMC	Cellulose tris (3,5-dichlorophenyl carbamate)		Immobilized	IC
Blossmate IMMG	Amylose tris (3-chloro-5-methylphenyl carbamate)		Immobilized	IG





Key Advantages

- **Excellent Selectivity** Polysaccharide-based CSPs provide superior recognition and resolution across a wide range of chiral molecules.
- **High Efficiency & Superior Separation** Achieve strong peak shape, high plate count and consistent reproducibility.
- **Scale-Up Capability** Available in analytical columns → prep columns → bulk media for seamless process development to production.
- **SFC and HPLC Compatibility** All Blossmate preparative column is compatible with SFC – no separate hardware required.

Modes of Use

- Normal Phase (NP)
- Polar Organic
- Reversed Phase (RP)
- Supercritical Fluid Chromatography (SFC)

Important Guidance for Mode Switching (NP → RP)

While Blossmate phases can operate in both NP & RP modes, **once switched from NP → RP, the same column should remain dedicated for RP use only.**

Recommended Conditioning Before Switching

- ✓ Test column in NP mode to confirm performance.
- ✓ Flush with IPA at 0.25 mL/min (4.6 mm ID) for 20 minutes.
- ✓ Then flush with methanol.
- ✓ Transition to RP using aqueous methanol or aqueous acetonitrile.

Why Choose Blossmate for Chiral Purification?

- ✓ Proven phase chemistry aligned with widely used global equivalents
- ✓ Lower cost of operation compared to imported CSPs
- ✓ Local support, faster supply & technical application guidance
- ✓ Scalable from method development → pilot → commercial purification

Free Chiral Method Screening Support

Share samples → We evaluate on multiple Blossmate phases → Recommend best separation phase and method conditions.

No cost. Fast turnaround.

Blossmate Chiral Phase Availability

Type	ID (mm)	Length (mm)	Particle Size (µm)
Analytical	4.6	150/250	5 & 10
Preparative	10/21.2/30/50	250	5 & 10
Bulk Media	-	-	5 & 10

- All Blossmate preparative chiral columns are fully SFC-compatible.
- Need a different dimension? Custom sizes are available — contact us.

