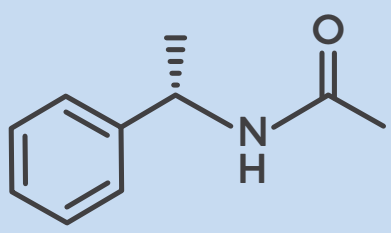
INTRODUCING **CHIRALPAK® IH**

THE NEWEST ADDITION TO OUR FAMILY OF IMMOBILIZED CHIRAL STATIONARY PHASES

CHIRALPAK IH

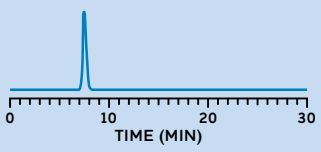
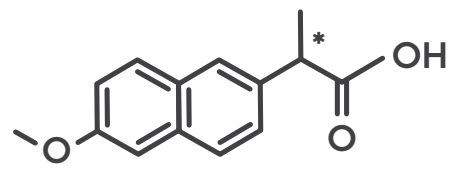
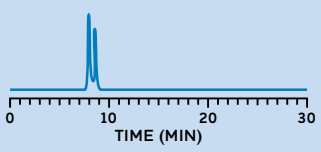
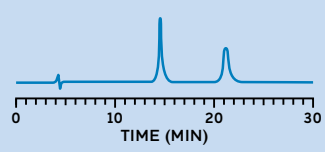


tris (S)-α-methylbenzylcarbamate

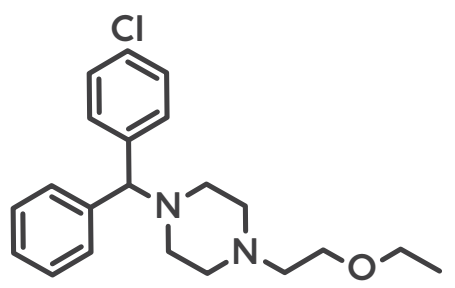
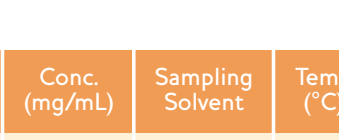
The immobilized CHIRALPAK IH chiral selector represents a significant improvement over the coated CHIRALPAK AS stationery phase, offering wider solvent versatility and robustness.

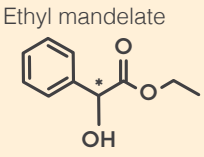
SOLVENT VERSATILITY

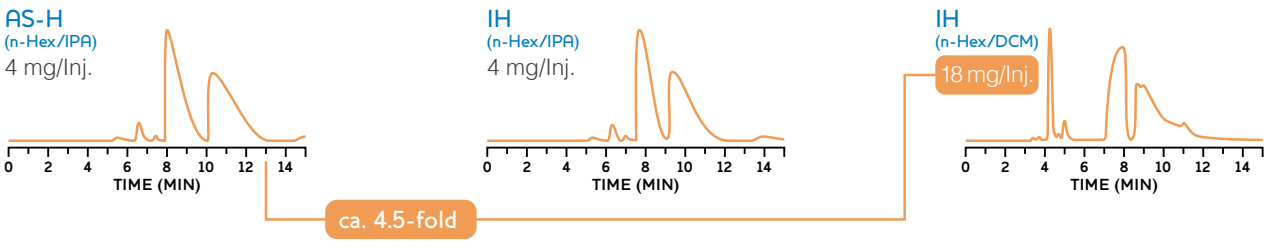
The separations of naproxen by the AS-H and IH chiral selectors are shown using a number of mobile phases. Clearly, by modifying the composition of mobile phases the best separation of naproxen is obtained with the mobile phase containing $H_2O/A_COEt/TFA$ 80/20/0.1 v/v.

	H/EtOH/TFA=90/10/0.1	H/AcOEt/TFA=80/20/0.1	NAPROXEN
AS-H	α = 1.03 Rs = -- 	This mobile phase is not compatible with the AS-H selector.	
IH	α = 1.11 Rs = -- 	α = 1.57 Rs = 6.00 	

Excellent separations of hydroxyzine by the IH chiral selector are achieved with mobile phases specifically containing H_2O/AcOEt/DEA 80/20/0.1 v/v. The same mobile phases cannot be employed for the separations of hydroxyzine by the AS-H.

	H/THF/DEA=90/10/0.1	H/AcOEt/DEA=80/20/0.1	HYDROXYZINE
AS-H	This mobile phase is not compatible with the AS-H selector.	This mobile phase is not compatible with the AS-H selector.	
IH	α = 1.25 Rs = 2.17 	α = 1.43 Rs = 3.54 	

COMPOUND	COLUMN	ELUENT	UV (nm)	F.R. (mL/min)	Conc. (mg/mL)	Sampling Solvent	Temp (°C)
Ethyl mandelate 	AS-H	H/I=80/20	200	1.0	10.0	Eluent	25
	IH	H/I=80/20	200	1.0	10.0	Eluent	25
	IH	H/DCM/EtOH=85/15/1	260	1.0	25.0	Eluent	25



DCM(CH_2Cl_2) is not compatible with the coated stationary phases.

IMPROVEMENT OF LOADABILITY

Loadability of ethyl mandelate is compared for the AS-H and IH stationary phases. The data shows that the loadability of the immobilized IH stationary phase is superior to that of the AS-H phase. This is critically important for preparative scale separations of enantiomers.

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