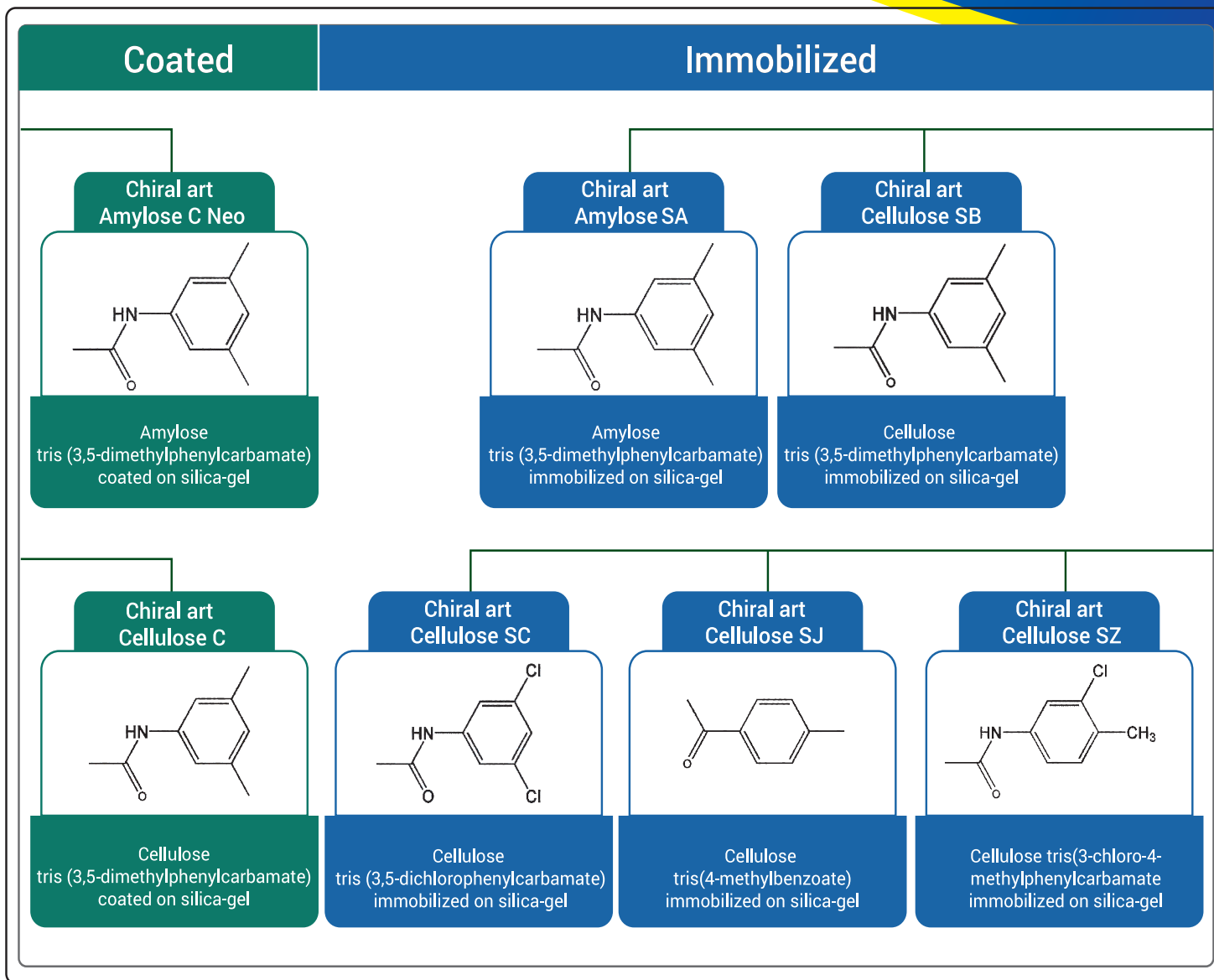


# YMC CHIRAL ART COLUMNS

**YMC**  
India Pvt. Ltd.



## Features

**1**

Excellent peak shape

**2**

Low column bleeding

**3**

Wide usable pH range

**4**

High-purity purification utilizing recycling preparation

**5**

Effective for preparative separation of enantiomers

**6**

High solvent versatility

**7**

Extended packing durability



## Specialities of Immobilized Columns

The best screening Kit for wide range of chiral molecules, cis-trans, geometric and structural isomers.

Highly suitable in preparative grades, in large (multi kg) quantity separations.

Compatible for all chromatographic modes such as NP, PO, RP, HILIC and SFC.

Faster separation with high resolution

Excellent durability

## Superior Equivalency Vs Other Makes

S.No.	YMC Phase	USP Class	Usable Chromatographic Mode*	Other Make	Other Make
1	CHIRAL ART Amylose C Neo	L51	NP/PO/RP/HILIC	CHIRALPAK AD-H/AD-RH	Lux Amylose-1
2	CHIRAL ART Cellulose C	L40	NP/PO/RP/HILIC	CHIRALCEL OD-H/OD-RH	Lux Cellulose-1
3	CHIRAL ART SA	L99	NP/NP-NS/PO/RP/HILIC	CHIRALPAK IA	Lux i-Amylose-1
4	CHIRAL ART SB		NP/NP-NS/PO/RP/HILIC	CHIRALPAK IB	
5	CHIRAL ART SC	L119	NP/NP-NS/PO/RP/HILIC	CHIRALPAK IC	Lux i-Cellulose-5
6	CHIRAL ART SJ		NP/NP-NS/PO/RP/HILIC	CHIRALCEL OJ/OJ-RH (Coated)	Lux Cellulose-3 (Coated)
7	CHIRAL ART SZ		NP/NP-NS/PO/RP/HILIC	CHIRALCEL OZ/OZ-RH (Coated) CHIRALPAK IM	Lux Cellulose-2 (Coated)

\* NP: Normal Phase Mode

NP-NS: Normal Phase-Non-std Mode

PO: Polar organic Mode

RP: Reverse Phase Mode

HILIC: Hydrophilic Interaction Liquid Chromatographic Mode

# YMC

## SUMI CHIRAL COLUMNS

SUMICHIRAL OA columns are high-performance chiral columns for enantiomer separation by HPLC. On SUMICHIRAL OA columns direct separation of various enantiomers can be realized effectively. Enantiomeric separation is achieved from the various diastereomeric interactions such as hydrogen bonding, charge transfer and host-guest interactions, etc. SUMICHIRAL OA columns are very useful for the accurate

determination of the optical purity and for the preparation of pure enantiomers of biologically active compounds such as pharmaceuticals, pesticides, and perfumes.

- Improved Pirkle Type
- Ligand exchange Type
- Host-guest Type

### SUMICHIRAL OA

Standard type		Inverted type	Mode**
SUMICHIRAL	Chiral component	SUMICHIRAL	
OA-2000	(R)-phenylglycine	OA-2000S	NP
☆OA-2500	(R)-1-naphthylglycine	OA-2500S	RP
OA-3100	(S)-valine	OA-3100R	NP,RP
OA-3200	(S)-tert-leucine	OA-3200R	NP,RP
☆OA-3300	(R)-phenylglycine	OA-3300S	NP,RP
OA-4000	(S)-valine (S)-1-( $\alpha$ -naphthyl)ethylamine	OA-4000R	NP
OA-4100	(S)-valine (R)-1-( $\alpha$ -naphthyl)ethylamine	OA-4100R	NP
OA-4400	(S)-proline (S)-1-( $\alpha$ -naphthyl)ethylamine	OA-4400R	NP
OA-4500	(S)-proline (R)-1-( $\alpha$ -naphthyl)ethylamine	OA-4500R	NP
OA-4600	(S)-tert-leucine (S)-1-( $\alpha$ -naphthyl)ethylamine	OA-4600R	NP
☆OA-4700	(S)-tert-leucine (R)-1-( $\alpha$ -naphthyl)ethylamine	OA-4700R	NP
OA-4800	(S)-indoline-2-carboxylic acid (S)-1-( $\alpha$ -naphthyl)ethylamine	*	NP
☆OA-4900	(S)-indoline-2-carboxylic acid (R)-1-( $\alpha$ -naphthyl)ethylamine	*	NP
☆OA-5000	(D)-penicillamine	OA-5000L	RP
OA-6000	(L)-tartaric acid (S)-1-( $\alpha$ -naphthyl)ethylamine	OA-6000R	RP
OA-6100	(L)-tartaric acid, (S)-valine (S)-1-( $\alpha$ -naphthyl)ethylamine	OA-6100R	RP
☆OA-7000	$\beta$ -cyclodextrin with novel spacer	*	RP
☆OA-8000	chiral pseudo 18-crown-6 ether	*	NP,RP

☆Most popular phases

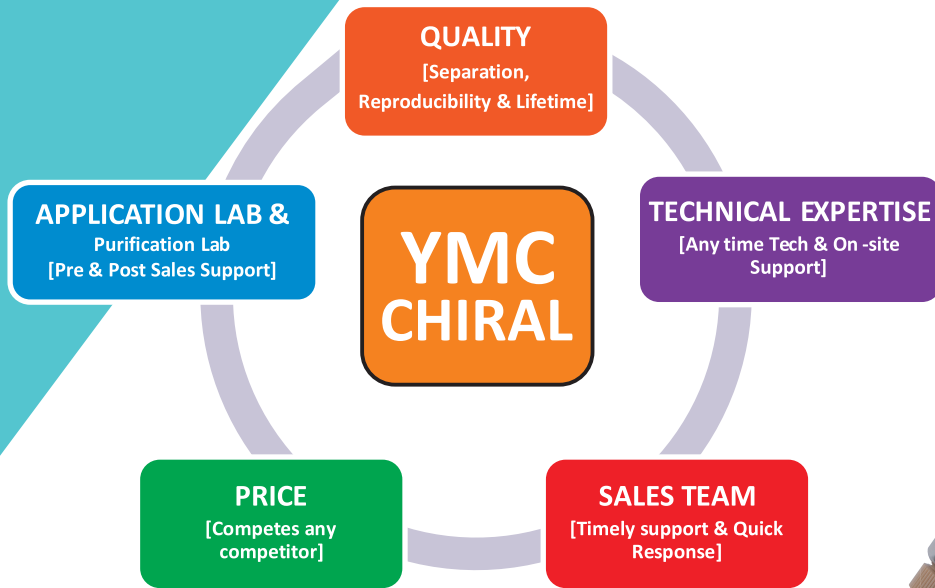
\*Enantiomeric stationary phases (inverted types) are available with the exception of OA-4800, 4900, 7000 and 8000. On these phases, the elution order of enantiomer is inverted.

\*\*NP : normal-phase mode, RP : reversed-phase mode

### Special Merits of SUMICHIRAL OA

- The large number of theoretical plates of the columns offers high resolution.
- The packing materials have chemical stability and the columns have long life.
- The enantiomeric stationary phases give the inverse elution orders, resulting in accurate determination of the optical purity and efficient preparation of the enantiomer are.

# WHY TO CHOOSE YMC CHIRAL



**YMC**  
India Pvt. Ltd.

( a subsidiary of YMC Co.Ltd Japan )

## YMC CHIRAL LAB

Plot no 78/A/6, Phase VI,  
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Gajularamaram Village, Quthbullapur, Medchal,  
Hyderabad-500055.

An ISO 9001:2015 certified Lab

## HEAD OFFICE

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