High Performance GPC System

HLC-8320GPC EcoSEC

TOSOH BIOSCIENCE

TOSOH

Effective
Comfortable
Original

높은 신뢰성

뛰어난 재현성

안정한 RI baseline

HLC-8320GPC EcoSEC은,
GPC에 필요한 모든 장치를 내장시킨 일체형의 GPC 전용기기입니다.
Column oven과 송액 pump에 각각 온도 controller를 두어 baseline을 더욱 안정하게 합니다.
Sample과 reference의 dual flow기능을 채용하여 RI baseline을 안정화 시켰습니다.

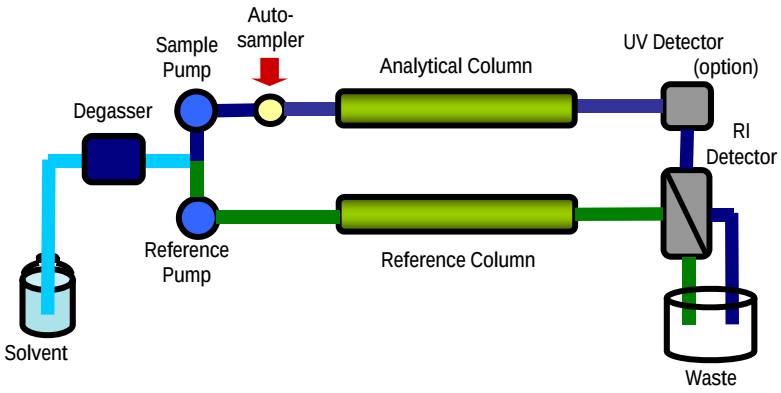
특 징

• 일체형 만이 가능한 고성능
Dead volumn 최소화 → sample의 낭비가 적다.
samlpe의 확산 억제 → sharp한 chromatogram
실온 변화의 영향이 적어 정밀한 온도 조절 가능

• 전용기기 만이 가능한 편리성
EcoSEC-WS 의 사용으로 시료주입부터 데이터 처리까지 본체의 pannel을 거치치 않고도 단독 제어 가능.

• Semi-micro GPC에 대응
Semi-micro column 사용 시 측정 시간 단축과 용매 소모량 절감으로 기존 방법에 비해 6배의 이득을 얻을 수 있다.

• Double-path, double-flow 기능
Sample과 reference의 dual flow는 안정한 baseline을 얻게 해준다.



Degasser system	Vacuum degassing method. Vacuum selection from two levels
Pump oven unit	Hot-air agitation. Room Tem. +10 to 50℃. Tem. control precision : ±0.1℃
Pump	Parallel liquid supply method. Flow late : 10 to 2000μL/min. Max Pressure : 0 to 25MPa
Auto sampler	Syringe measurement method. Injection Vol. : 1 to 1500μL Number of samples : 100
Column Oven	# of columns : 300mm * 8 . Room Tem. +10 to 60℃. Precision : ± 0.002℃
RI detector	Brice-type, double-path, double-flow. Range : 1.00 – 1.80.
UV detector (option)	Dual beam, single flow cell. Wavelength : 195 – 350nm. Built-in.
Column Switching Valve Unit(option)	Two series of analytical columns can be connected to two-series four-way switching valve.

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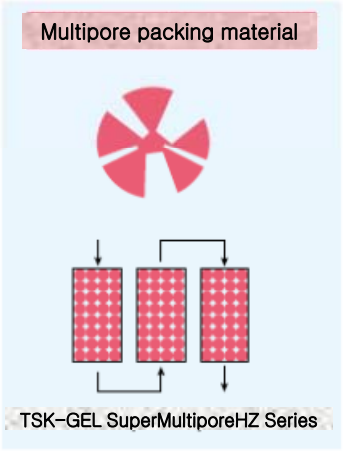
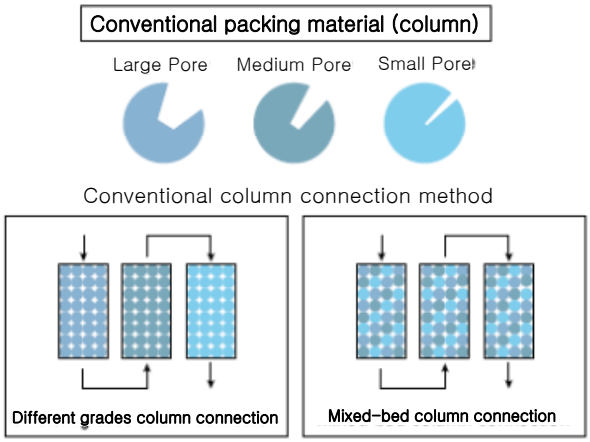
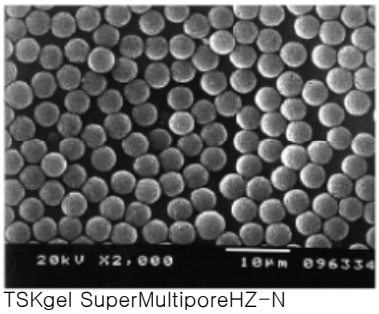
- 다양한 종류와 등급의 GPC column

Column type (Packing material type)	Sample type	Series	Features of series
H type (Styrene polymers)	Synthetic polymers suitable for organic solvents	H_{XL}	General analysis, low absorption
		H_{HR}	Analysis with various organic solvents
		SuperH	Quick and solvent-efficient analysis, high efficiency (semi-micro column)
		SuperHZ	Quick, solvent-efficient analysis, high efficiency, low absorption (semi-micro column)
		SuperMultiporeHZ	Calibration curve with high linearity
Alpha, SuperAW type (Hydrophilic polymers)	Synthetic polymers suitable for organic solvents Water-soluble synthetic polymers Polysaccharides Biopolymers (protein, DNA)	Alpha	Absorption mode applicable to various types of polymer from water-soluble to organic-soluble
		SuperAW	Quick, low-solvent, and efficient (semi-micro column) absorption mode applicable from water-soluble to organic-soluble polymers
PW type (Hydrophilic polymers)	Water-soluble synthetic polymers Polysaccharides Biopolymers (protein, DNA)	PW	Suitable for hydrophilic synthetic polymers
		PW_{XL}	High resolution
		PW_{XL}-CP	Suitable for cationic polymers
SW type (Silica)	Biopolymers (protein, peptide)	SW	Highly hydrophilic and suitable for separation of proteins
		SW_{XL}	Efficient
		SuperSW	Efficient and solvent-saving (semi-micro column)

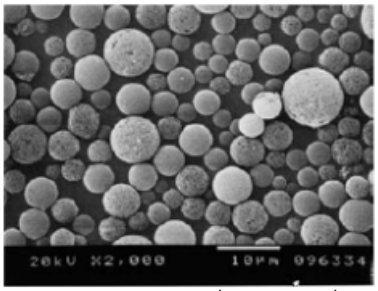
- Schematics of SEC packing materials







TSKgel SuperMultiporeHZ-N



Commercial product (mixed-bed)