

# GPC/SEC system

## LC-4000 series Integrated HPLC and UHPLC systems

JASCO can offer the GPC/SEC system for molecular weight distribution measurement, which is effective tool for the characteristic evaluation of polymer.



### ■ System configuration example

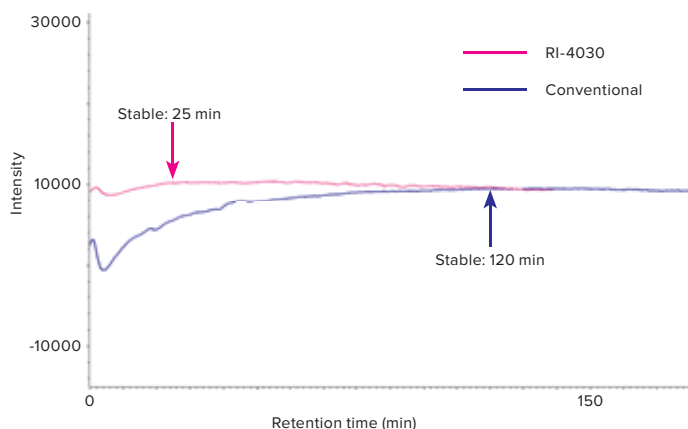
PU-4180:	HPLC pump
DG-4000-04:	Degasser
AS-4050:	Autosampler
CO-4060:	Column oven
RI-4030:	Refractive index detector
MD-4010:	PDA detector
ChromNAV Ver.2:	Chromatography data system
ChromNAV GPC/SEC:	GPC/SEC calculation program
JASCO can configure the customized system for GPC/SEC analysis with HFIP. (Please contact us.)	

### ■ Features

- High measurement reproducibility by the high-accuracy solvent delivery pump
- System expansion capability by various detector such as PDA and UV-Vis detector
- Refractive index detector for semi-micro scale is available

### ■ High stability RI detector

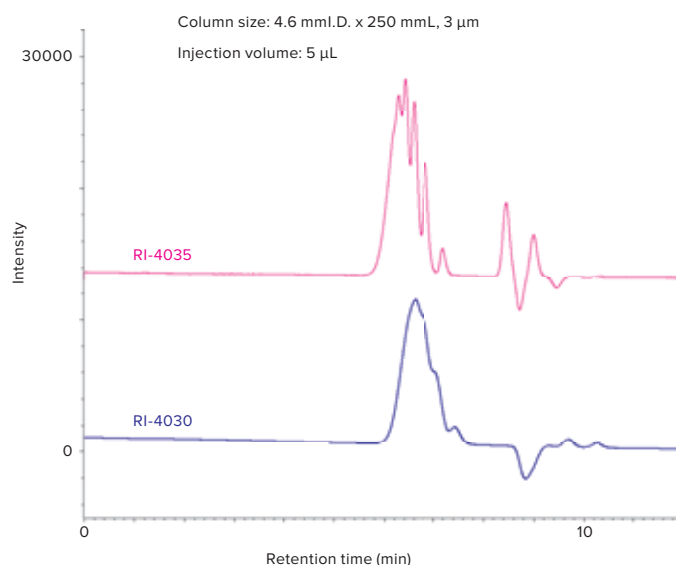
LC-4000 series can become stable at shorter time (25 min) than the one of a conventional equipment (120 min).



Baseline comparison after switching on the power

### ■ Corresponding to semi-micro scale

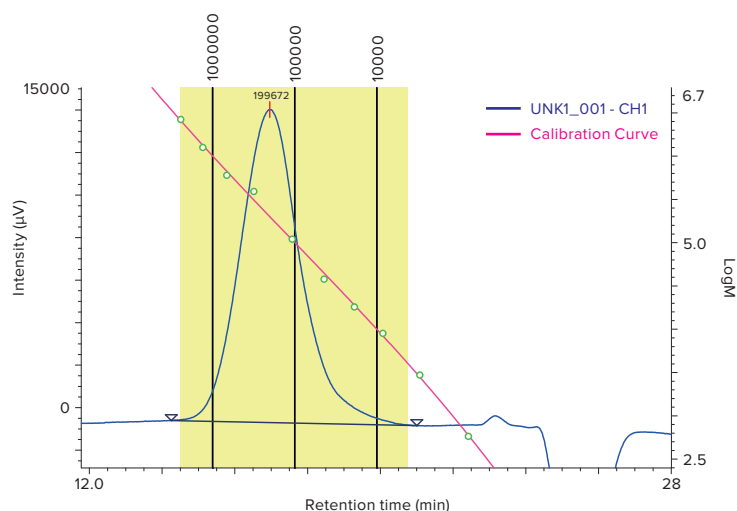
JASCO can offer the semi-micro type refractive index detector, which allows to perform high separation and to reduce the solvent consumption.



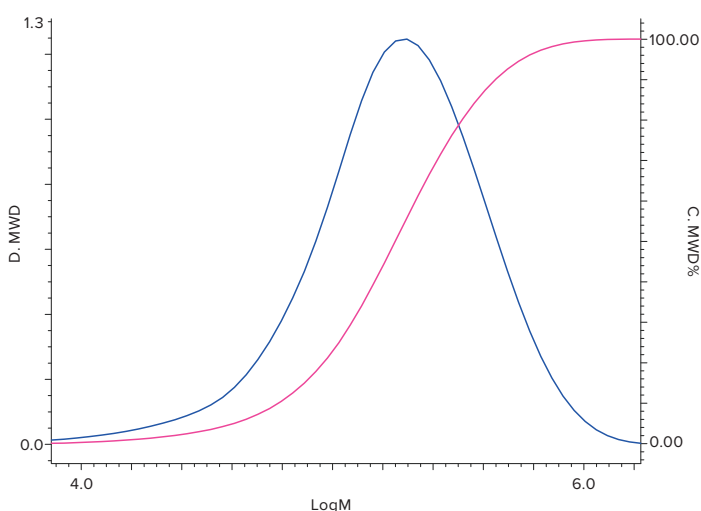
Measurement of polystyrene oligomer

## ■ Molecular weight distribution program (option)

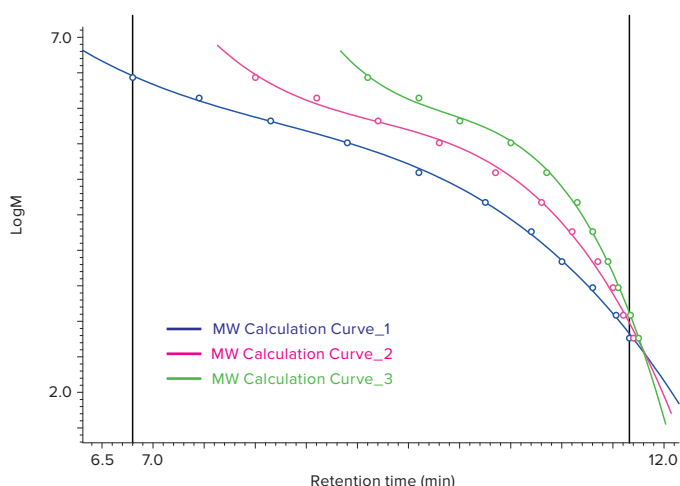
This optional program enables to perform GPC data processing by combination with ChromNAV Ver.2



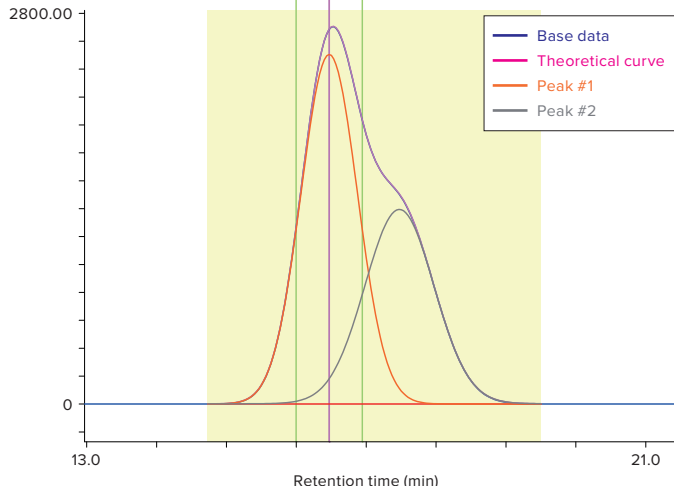
- Simultaneous display of chromatogram, calibration curve and designated molecular weight



- Integral molecular weight distribution curve (red) and differential molecular weight distribution curve (blue)



- Convenient comparison display for accuracy management of calibration curve



- Curve fitting function for unseparated peak is included as standard



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