

Analytical/Preparative Hybrid HPLC

Shimadzu Nexera HPLC	
	
Tool Type: Analytical/Preparative HPLC	
Location: Elings Hall 2411	
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Description: Analytical/Preparative Hybrid HPLC	
Manufacturer: Shimadzu Nexera	

About

The Shimadzu Nexera Hybrid HPLC system at BioPACIFIC MIP is a unique instrument designed with dual analytical and preparative flow paths. This design allows for the automated and easy interchange between an analytical tool for method development and fraction purity re-analysis and a preparative HPLC for fraction collection. This HPLC system also improves upon the typically UV-based fractionation process of prep chromatography by inclusion of an inline single quadrupole MS detector (LCMS-2020). Direct on-line mass spectrometry can help ensure only fractions containing the target compound are collected and potentially eliminate the need for subsequent offline MS analysis.

Detailed Specifications

Force Capacity: 50 kg.f (500N)

Force Resolution: 0.1 g

Load cells: 0.5, 5, 30, 50 kg.f

Speed Range: 0.01 – 40 mm/s

Maximum Aperture: 370 mm/590mm

Distance Resolution: 0.001 mm

Data Acquisition Rate: 2000 pps

Safety Concerns

Avoid sudden changes in pressure and temperature Avoid any mechanical shock Properly dispose of solvents

Reference Documentation

hplcmanualshimadzunexera.pdf

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