Analytical/Preparative Hybrid HPLC

Shimadzu Nexera HPLC	
Tool Type: Analytical/Preparative HPLC “”	
Location: “Elings Hall 2411”	
Supervisor	**Tool Lead**
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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 ow 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