

Analytical/Preparative Hybrid HPLC

Shimadzu Nexera HPLC	
	
Tool Type: Analytical/Preparative HPLC ""	
Location: "Elings Hall 2411"	
Supervisor	email
Morgan Bates	morganbates@ucsb.edu
Juan Manuel Urueña	jmurueña@ucsb.edu
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

From:

<https://bpm-wiki.cnsi.ucsb.edu/dokuwiki/> - NSF BioPACIFIC MIP Wiki

Permanent link:

https://bpm-wiki.cnsi.ucsb.edu/dokuwiki/doku.php?id=shimadzu_nexera_analytical_preparative_hybrid_hplc&rev=1635551356

Last update: **2021/10/29 23:49**

