


# Analytical/Preparative Hybrid HPLC

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