


# Shimadzu Nexera Analytical HPLC-MS

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<b>Tool Type:</b> Analytical Characterization	
<b>Location:</b> Elings Hall 2411	
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## About

The Shimadzu Nexera Analytical HPLC system enables the identification and quantification of complex mixtures, while also supporting method development for sample purification on both preparative and semi-preparative scales. Equipped with a 6-way switch valve, the system streamlines the selection between four distinct columns, each offering unique surface chemistry and retention properties. These include C18 columns with 100 and 300 Å pore sizes, a C4 column, and a HILIC column. The system's design also allows for easy eluent interchanges, ensuring flexible adaptation to various purification and characterization requirements. Additionally, it features a dedicated PDA and a single quad LCMS-2050 mass spectrometer, which is capable of both ESI and APCI ionization and covers a mass range of 10-2000 m/z.

## Solvent Guidelines and Sample Holder Options

### Solvent Compatibility

SP Genevac evaporators are robust systems designed to be resistant to the most common solvents and acids used within the chemistry laboratory, including TFA and HCl. **However, the Genevac is not compatible with the following:**

- Carbon disulfide
- Diethyl ether
- 1,2-Dimethoxyethane
- 2-Ethoxyethanol
- Hydrogen cyanide
- Pentane
- Triethylsilane

## Sample formats

Sample holders for the following formats are available:

- **Vials:** 40, 30, 20, and 8-mL sizes
- **Test tubes:** 16, 18, and 25-mm diameter and up to 150 mm length
- **Centrifuge tubes:** 50-mL size

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