

Shimadzu Nexera Analytical HPLC-MS

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Tool Type: Analytical Characterization	
Location: 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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Last update: **2024/10/16 19:50**

