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To Whom It May Concern

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Specifications of Shimadzu Nexera XS inert - bioinert chromatography system

We hereby confirm that Shimadzu Nexera XSi chromatography system offers following functions and features:

1. Nexera XS inert chromatography system and all of its modules like mobile phase pump, degassing unit, autosampler, PDA are compatible with and can operate together with the Shimadzu LCMS-9030 time-of-flight mass spectrometry detector, and is fully controlled from LabSolutions LCMS software. **9.1**
2. The Shimadzu Nexera XS inert system is fully bioinert: all components that come into contact with the mobile phase and the sample are entirely free of any type of steel. Modified steel surfaces employed for 'biocompatible' class are not used in this system.
- 3.2 3. MR 40 µl LPGE gradient mixer is compliant with bioinert/inert system requirements and can withstand a pressure not less than 15 000 psi.
- 4.4 4. The SIL-40C XSi automatic sample introduction unit (autosampler) is of bioinert class and contains no steel surfaces that come into contact with the mobile phase and the samples. **4.7**
- 6.7 5. The inert UHPLC measurement cuvette (low-dispersion cuvette) is fully bioinert/inert, equivalent to a low-dispersion design, and contains no wettable metal surfaces. The cuvette volume does not exceed 3 µL, and it supports operating pressures of at least 1000 psi.
- 7 6. Shimadzu provides all communication cables and components required for interconnecting the Nexera XS inert modules and integrating them with the existing LabSolutions LCMS software installation. Shimadzu also provides all necessary bioinert/inert tubing and related elements for connecting the Nexera XS inert modules to each other, and to the existing LCMS-9030 system. **9.2.**
- 7 7. Nexera XS inert chromatography system with LPGE valve has functionality that allows two or more methods—each using different mobile phases, different columns, and different detectors—to be executed within a single sequence. Between methods, the system is capable of automatically filling the lines with the new mobile phase, removing previously used mobile phase, switching to the appropriate column, conditioning it, and then starting the analyses. This function is fully controlled via the software.
8. Nexera XS inert system supports automatic column-switching functionality within the column thermostat, allowing the system to autonomously switch between six available columns. This function is fully controlled via the software.

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