Reach new heights in your biomolecule analysis with **Nexera XS inert**

Nexera XS inert vs conventional UHPLC

Compared to conventional UHPLC instruments, the Nexera XS inert:

- ✓ Enhances sample recovery
- ✓ Increases sensitivity
- √ Improves resolution
- ✓ Elevates efficiency

Stainless steel-based conventional UHPLC

Biomolecules adsorb to stainless steel-based UHPLC systems

During conventional UHPLC, adsorption of biomolecules like oligonucleotides leads to:

- Reduced sensitivity
- · Lower reproducibility
- Peak tailing
- Carryover effects

surface Sample loss Poor peak shape Peak tailing

Adsorption

to internal

Nexera XS inert

PEEK material adsorption No sample loss Excellent separation

Avoiding sample adsorption with Nexera XS inert

Unlike conventional UHPLC instruments, Nexera XS inert has metal-free tubing that inhibits the adsorption of negatively charged biomolecules, preventing sample loss.

More reliable and efficient MISER chromatography

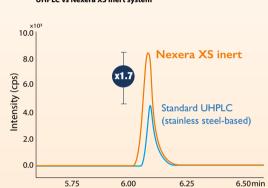
Find high reproducibility from the first injection, lowering sample usage, while streamlining biomolecule analysis.

20000 Nexera XS inert 17500 15000 12500 10000 Standard UHPLC 7500 5000 2500

MISER-gram of AMPcP, run on traditional stainless steel-based



Achieve higher and sharper peaks for metal-sensitive compounds, elevating resolution and sensitivity.

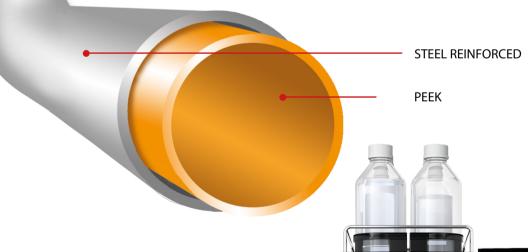


Analysis of the antisense oligonucleotide mipomersen using standard stainless steel-based UHPLC vs Nexera XS inert

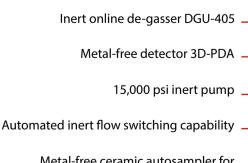
nexera x5 inert

Elevate your oligonucleotide analysis with our bioinert, biocompatible UHPLC instrument.

- Chemical resistance and high durability with pH stability 1-14
- Bio-inertness and enhanced pressure stability with PEEK Lined Stainless (PLS) tubing
- Ultra-high resistance to corrosion and complete biocompatibility with the absence of wetted surfaces in the sample flow path



BIO



Touchscreen controller SCL-40 GUI

pH monitoring capability

Metal-free ceramic autosampler for rapid and reliable analysis

Diamond-like carbon coated stator and reinforced

PEEK rotor for enhanced pressure tolerance















