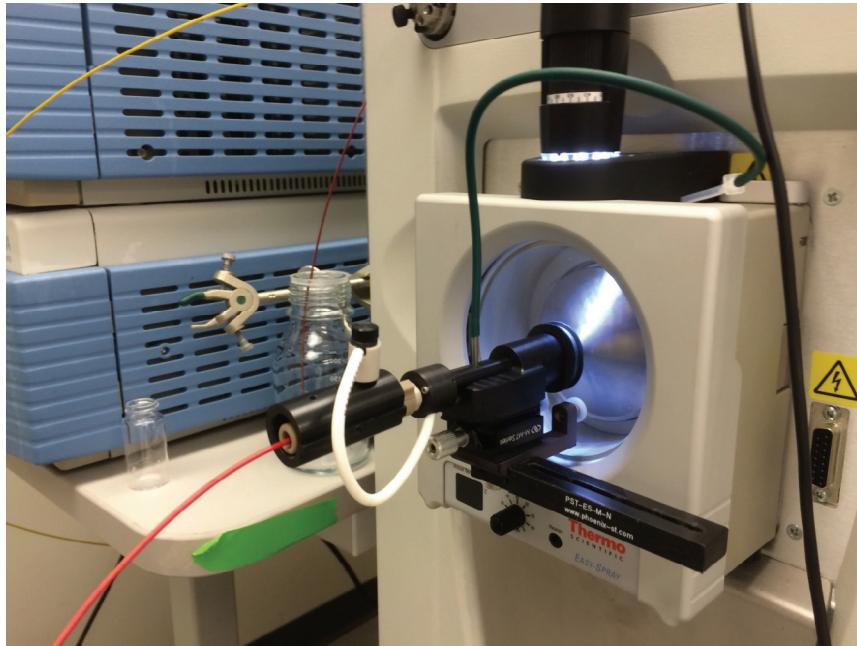
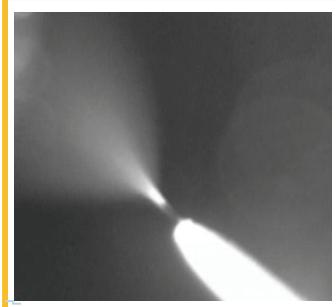


Negative and Positive ion Microspray Made **EASY**

Superb Sensitivity, Plug and Play



Microspray-nanospray "Jailbreak 2.0" source Insert for any column for the Thermo Easy-Spray source:

Includes:

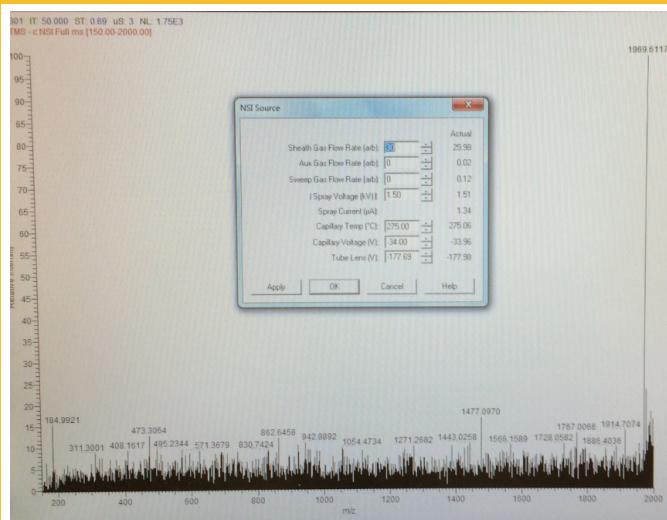
- Sheath gas conversion kit
- Source insert with adjustable sheath gas nozzle to optimize the distance between the sheath gas outlet and the spray emitter opening
- Order additional source inserts for various designated applications: calibration, microLC/MS, direct infusion, etc.

Model number: PST-ES-M-N

- Metal emitter sprays sub- μ L/min to over 30 μ L/min
- Negative and Positive ion sprays are equally stable and robust
- Entire range of buffer compositions from 100% aqueous to 100% organic
- Plug and Play in the Thermo Easy-Spray source
- Non-clogging spray emitter – no narrow-bored region
- Sheath-gas capable

Positive mode: PST-mgTip-xx-9.8 xx=25 or 50 μ m i.d.
Negative mode: PST-mTip-xx-9.8, xx = 25 or 50 μ m i.d.

The spray image above was from a PST-mTip-50 spraying MeOH unassisted at 8 μ L/min and at 2 KV
The Easy Spray source is a Thermo product.



Direct Infusion :5 μ L/min, -1.5 KV
2 ng/ml Large oligonucleotide (multiply charged) in water and 3% ammonium acetate

We thank H-K Lim, PhD, of the Janssen Research Lab, Johnson & Johnson, Springhouse, PA for collaboration and the permission to use the data and picture.

Ordering Information:

(610) 876.6081 info@phoenix-st.com www.phoenix-st.com

Unmatched Sensitivity, Non-Clogging Nano-microspray Emitters for +/- ion spray

PST-mTip, PST-mgTip

The patent-pending new metal emitters made of a passivated stainless material have exceptional spray qualities:

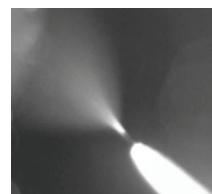
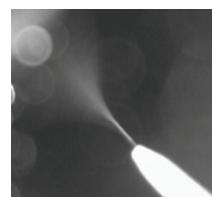
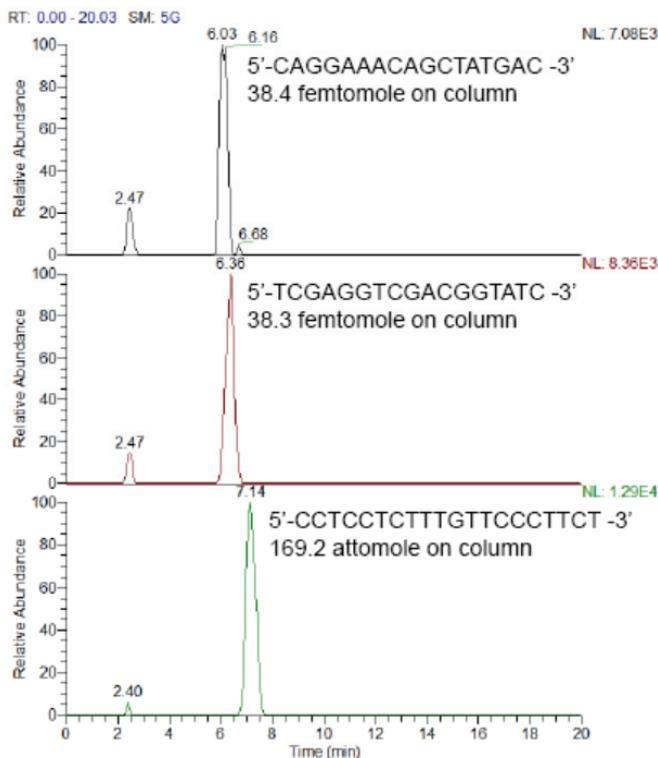
- High sensitivity cone-jet mode spray over an extremely wide flow-rate range: from 100 nanoliters/min to >30 μ L/min – suitable for both nanospray and microspray

- Extraordinarily stable positive (mgTip) and negative ion (mTip) sprays through the entire buffer gradient from near 100% aqueous to high organic. Each emitter is individually tested before shipment.

- Non-clogging – tapered only on the outside

- 20x higher sensitivity than conventional ESI and 2x the sensitivity of fused silica spray emitters

- Robust, long-lasting metal tips not easily damaged mechanically, and can be regenerated by a simple dilute nitric acid rinse.



PST-mTip-50: Extremely stable spray of methanol from top: 3 μ L/min, 8 μ L/min and 26 μ L/min

We thank H-K Lim, Janssen Pharmaceuticals, for the use of these data obtained with the PST-mTip-50
-2 KV, 97% aqueous beginning gradient., Capillary LC/MS separation of 3 oligonucleotides, 200 ng/mL, 5 μ L/min

Model numbers:

Negative ion applications:

PST-mTip-25-xx, xx=5 or 9.8 cm. 25 μ m i.d., 360 μ m o.d.

PST-mTip-50-xx, xx=5 or 9.8 cm. 50 μ m i.d., 360 μ m o.d.

Please contact us about custom lengths.

Positive ion applications:

PST-mgTip-25-xx, xx= 5 or 9.8 cm

PST-mgTip-50-xx, xx=5 or 9.8 cm

Ordering Information:

(610) 876.6081 info@phoenix-st.com www.phoenix-st.com