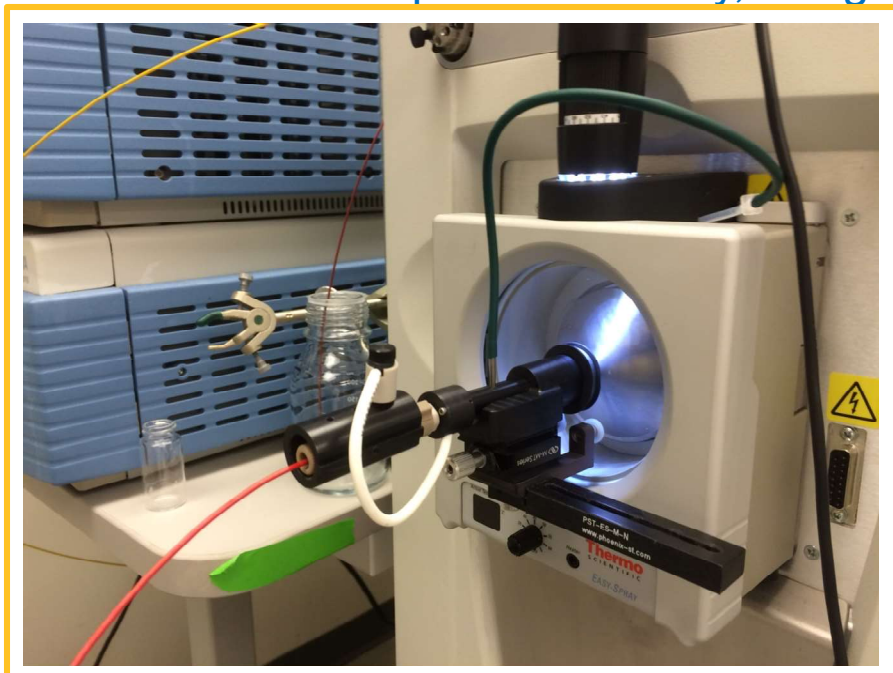
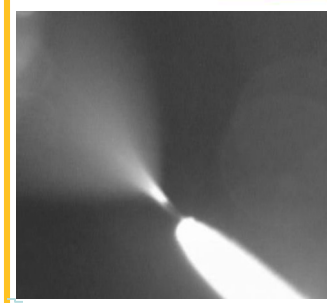


## Jailbreak 2.0 Microspray Insert for High Sensitivity MicroLC-MS with the Easy-spray source

Superb Sensitivity, Plug and Play



Microspray-nanospray “**Jailbreak 2.0**” source Insert for any column for the Thermo Easy-Spray source:

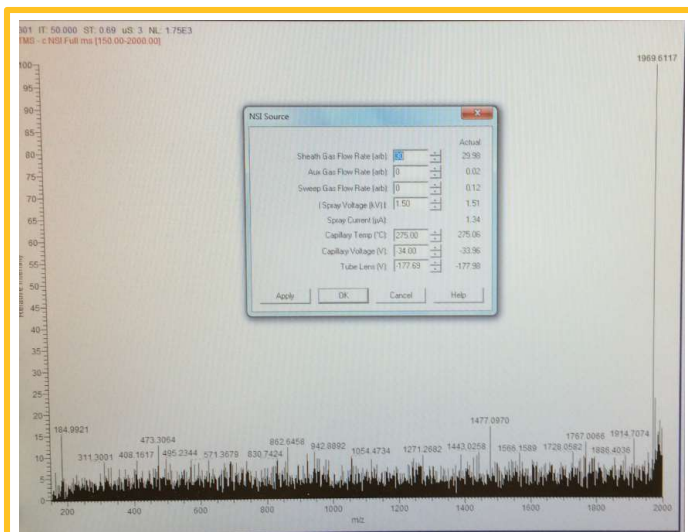
Includes:

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**



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

•Laser-pulled fused silica or metal emitter sprays sub- $\mu$ L/min to over 20  $\mu$ 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

•Clog-resistant spray emitters

• Sheath-gas capable

**Positive mode: PST-sTip-xx-9.8 xx=25 or 50  $\mu$ m i.d.**  
**Negative mode: PST-mTip -xx-9.8, xx= 25 or 50 i.d.**

The Easy Spray source is a Thermo product.

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.

## Unmatched Sensitivity, Clog-resistant Microspray Emitters for Metabolic Profiling

### PST-sTip – Laser-pulled fused silica emitter

- High sensitivity cone-jet mode spray over an extremely wide flow-rate range: from 100 nanoliters/min to 20  $\mu$ L/min – suitable for both nanospray and microspray

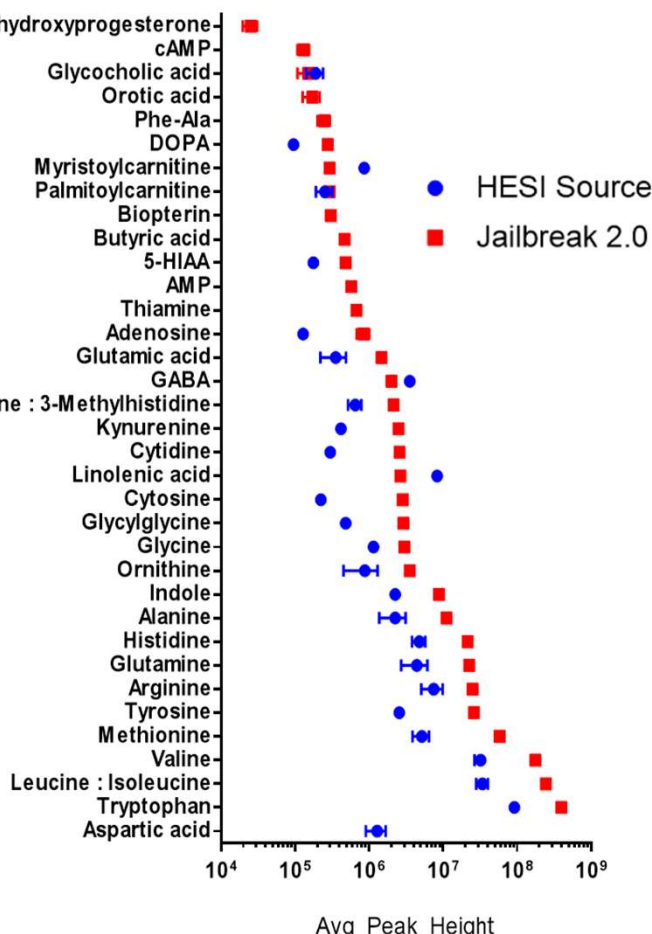
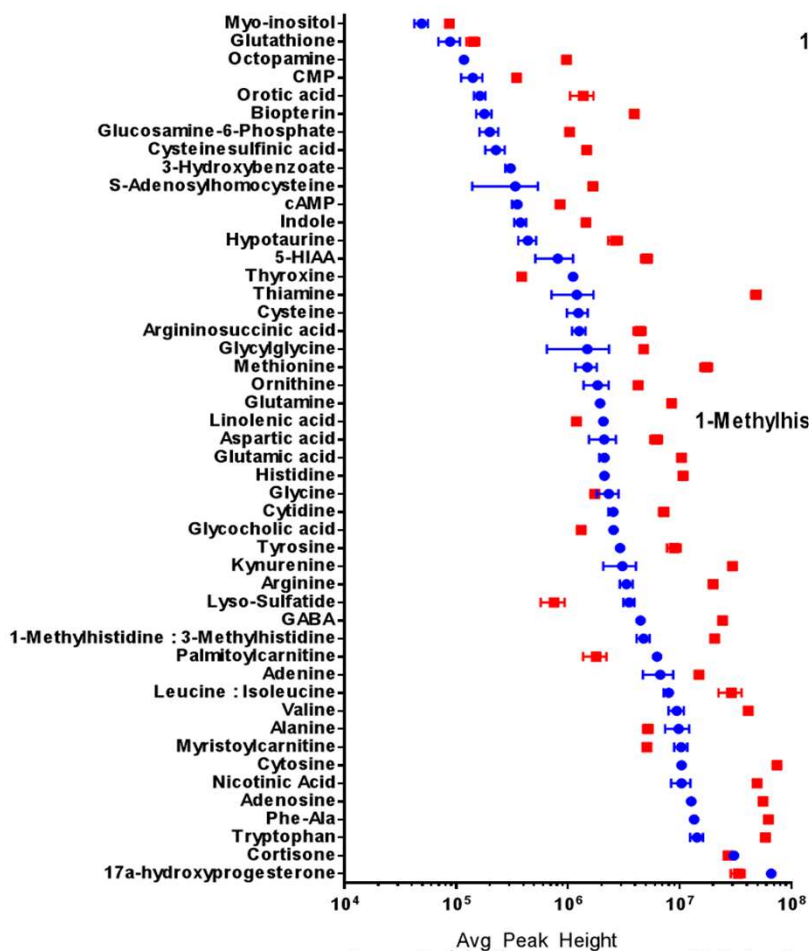
- 3x higher sensitivity than the Thermo HESI capillary ESI source.

- Well-established laser-pulled fused silica emitter running at up to 20  $\mu$ L/min.

### Comparing HESI source with Jailbreak 2.0

Metabolite standard: in Water

in 25x Diluted Plasma Comparison



#### Model numbers:

#### Negative ion applications:

PST-mTip-25-xx, xx=5 or 10 cm. 25  $\mu$ m i.d., 360  $\mu$ m o.d.  
PST-mTip-50-xx, xx=5 or 10 cm. 50  $\mu$ m i.d., 360  $\mu$ m o.d.  
Please contact us about custom lengths.

#### Positive ion applications:

PSTsTip-25-xx, xx= 5 or 9.8 cm  
PST-sTip-50-xx, xx=5 or 9.8 cm

#### Ordering Information:

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