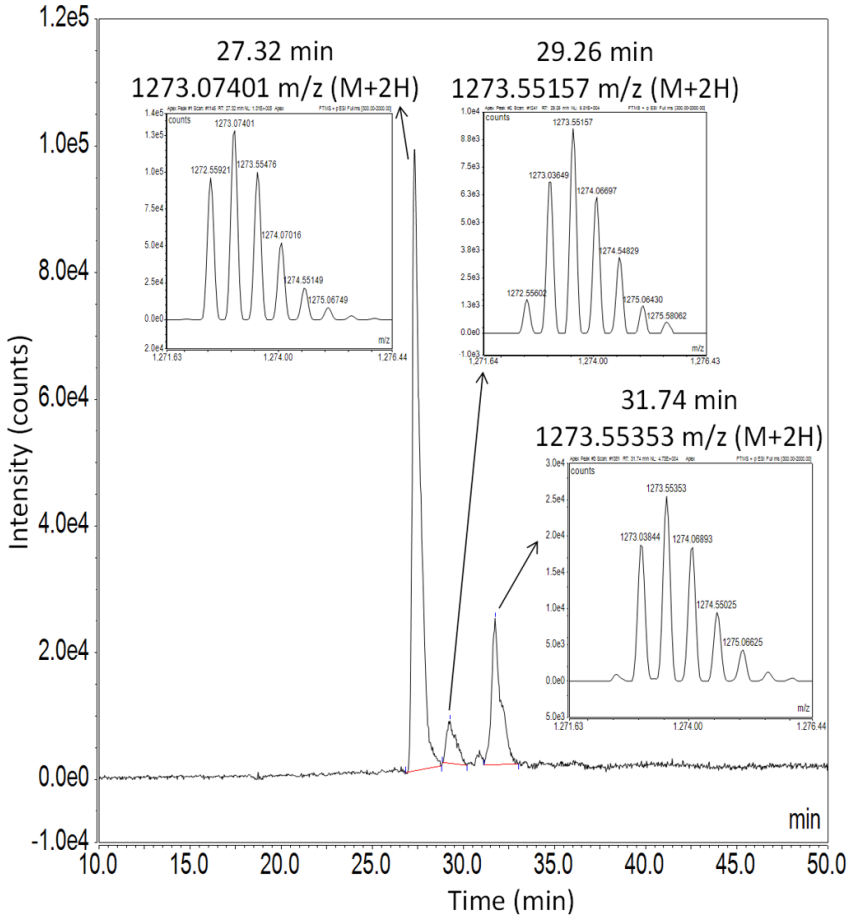
HALO®

BIOPHARMACEUTICALS

Capillary scale HILIC Separation of Deamidation Products of Trastuzumab

263-PE



PEAK IDENTITIES

Peptide fragments of GFYPSDIAVEWESNGQPENNYK

1. m/z= 1273.07401
2. m/z= 1273.55157
3. m/z= 1273.55353

The capillary HALO® Penta-HILIC column facilitated coupling of microflow LC conditions of 12 µL/min and a higher organic HILIC gradient separation. The column's high resolution capabilities resolved similar charged species required for examining peptide deamidation and isomerization products of Asn, Asp, and isoAsp forms of a peptide fragment of a trastuzumab tryptic digest.

TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 µm 0.5 x 150mm
Part Number: 98215-705
Mobile Phase A: 50 mM ammonium formate in water
Mobile Phase B: Acetonitrile/0.1% Formic acid
Gradient:

Time	%B
0.0	80
4.0	80
64.0	48

Flow Rate: 12 µL/min
Pressure: 123 bar
Temperature: 60 °C
Detection: ESI+
Injection Volume: 1 µL
Sample Solvent: 50 mM Tris-HCl /1.5M Guanidine-HCl, 0.5% formic acid
LC System: Thermo Ultimate 3000
MS System: Thermo Orbitrap Velos

MS CONDITIONS:

Spray Voltage (kV): 3.8
Capillary temperature: 300 °C
Sheath gas: 40
Aux gas: 10
RF lens: 50

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