BIOPHARMACEUTICALS

HALO

Separation of Deamidation Products of the NIST mAb on HALO[®] ES-C18



Deamidation is a reaction in which an amide functional group in the side chain of the amino acids asparagine or glutamine is removed or converted to another functional group. Deamidation products are of increasing importance in proteomics because they can alter a protein's structure, or possibly its function and stability, resulting in degradation. This is especially of interest in monoclonal antibody (mAb) development as well. The HALO[®] ES-C18 has the high resolution nessessary to separate the deamidation products of the NIST mAb.

TEST CONDITIONS:

Column: HALO 160 Å ES-C18, 2.7 µm 2.1 x 100mm Part Number: 92122-602 Mobile Phase A: Water/0.1% Formic acid Mobile Phase B: Acetonitrile/0.1% Formic acid Gradient: Time %B

	/0=
0.0	2.0
45.0	40
45.5	80
48.0	80
48.5	2.0
55.0	Enc

MS CONDITIONS:

Spray Voltage (kV): 4.0 Capillary temperature: 300 °C Sheath gas: 40 **Aux gas:** 10 **RF lens:** 50

AMT_AN_Rev_0

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Flow Rate: 0.3 mL/min Pressure: 124 bar Temperature: 60 °C Detection: ESI+ Injection Volume: 5 μL Sample Solvent: 50 mM Tris-HCl /1.5M Guanidine-HCl, 0.5% formic acid LC System: Shimadzu Nexera X2 MS System: Orbitrap Velos Pro

