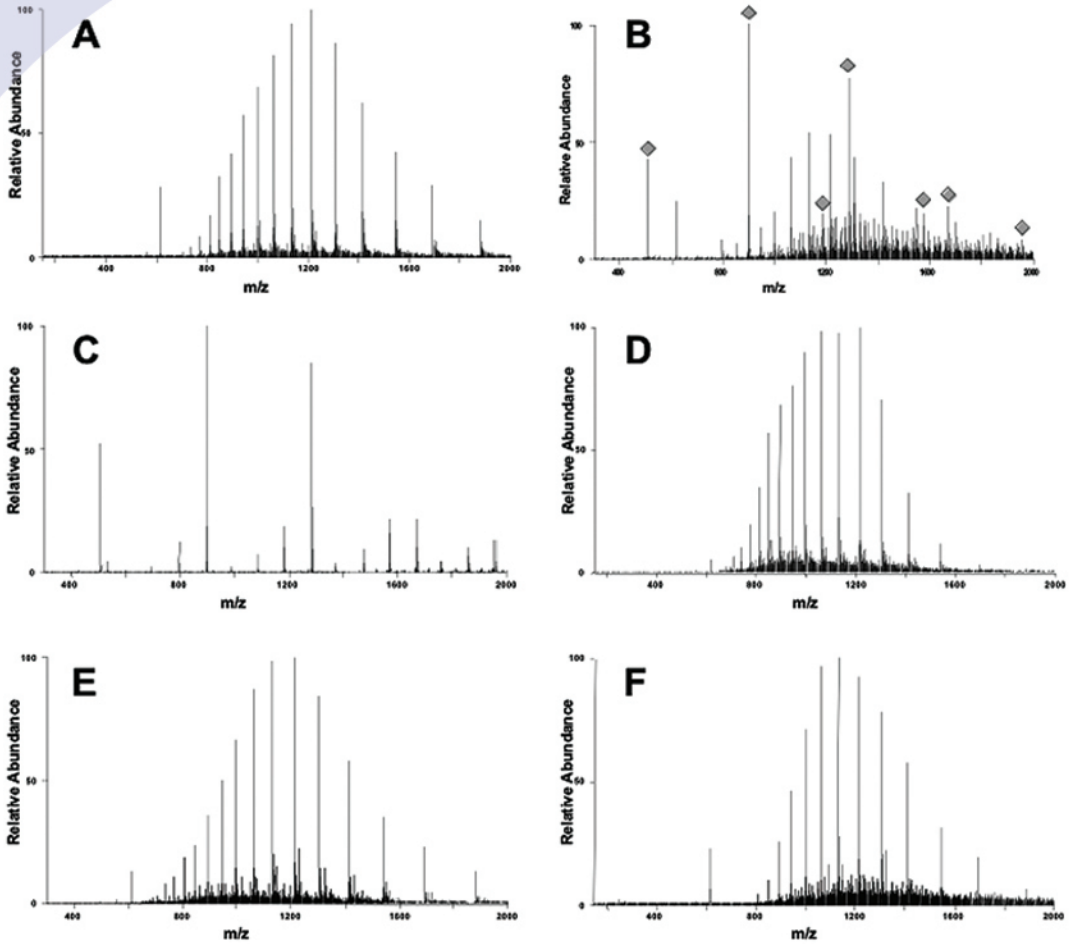

Mass spectrometric analysis of myoglobin under the following conditions:

A. Control 1: 10-pmol/μL myoglobin in infusion solution (50% methanol / 0.1M acetic acid)
B. Control 2: 10-pmol/μL myoglobin in 0.1X SDS PAGE running buffer (in infusion solution)
C. Control 3: 0.1X SDS-PAGE running buffer in infusion solution
D. Control 4: 20-pmol/μL myoglobin in water

Samples prepared using Protea's SDSaway reagent:

E. Myoglobin 1: 20pmol/μL myoglobin in 0.1X SDS PAGE running buffer
F. Myoglobin 2: 20pmol/μL myoglobin in 1X SDS PAGE running buffer

The black diamonds in Panel B highlight the contaminant ion peaks due to the SDS PAGE running buffer species (shown in Panel C). These chemical species include SDS, Tris, glycine and other salt species, and can be seen to both add contaminant ion peaks and suppress the ion signal of the myoglobin protein peaks. Panels E and F show the improvement in MS data achievable through removal of the SDS and other contaminant species.

Catalog Number	Description	Unit	Price/Unit
PM-100-25	SDSaway reagent (25mL)	1	$80
PM-100-100	SDSaway reagent (100mL)	1	$275

Phone: 877.776.8321
Technical Support: 304.680.2660
techserv@proteabio.com
www.proteabio.com