**Application Report 173**

**LC-MS of Complex Peptide Mixture Using Ascentis™ C18**

A complex peptide mixture is resolved on Ascentis C18.

**Key Words**

peptide map; proteomics; LC-MS; Ascentis C18, 581305-U

**Conditions**

- **column**: Ascentis C18, 25 cm x 2.1 mm I.D., 5 µm particles (581305-U)
- **mobile phase A**: 50:50, 50 mM formic acid titrated with ammonium hydroxide (pH 3.0):water
- **mobile phase B**: 50:50, 50 mM formic acid titrated with ammonium hydroxide (pH 3.0):acetonitrile
- **flow rate**: 0.2 mL/min.
- **temp.**: ambient
- **det.**: ESI (+)
- **injection**: 4 µL
- **sample**: tryptic digest of carboxymethylated protein mixture 1.5 g/L in 50 mM formic acid
- **gradient**:

<table>
<thead>
<tr>
<th>Min</th>
<th>% A</th>
<th>% B</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>90</td>
<td>10</td>
</tr>
<tr>
<td>80</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
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