



Fabio Rossi, Senior Analytical Scientist, Abzena plc.
www.abzena.com

“The SMART Digest kit has proven to be an easy-to-use, fast and reproducible tool when used for our peptide mapping analysis.”



How has the Thermo Scientific™ SMART Digest™ Kit helped you solve a problem and achieve results?

We were asked to perform a sequence confirmation on a protein produced in-house and the comparison to a reference molecule with a very short turnaround time. We obtained very high sequence coverage (90%) with the SMART Digest trypsin kit. Some peptides were too short to give the required information. We therefore used the SMART Digest chymotrypsin kit to obtain peptides spanning the missing parts of the sequence (100% sequence coverage was achieved).

How have you found the following when using SMART Digest kits:

- Speed
- Ease of use
- Reproducibility
- Quality of results
- Anything else...

We achieved fast digestion times, with the procedure significantly easier than a standard in-solution digestion. The results obtained were comparable, if not better, than when using in-solution digestion.

How has the SMART Digest kit helped improved your workflow?

We obtained over 90% sequence coverage with a single enzyme digestion (trypsin), in just 45 minutes for our antibody. When we added the data from the chymotrypsin digestion we were able to confirm the remaining part of the antibody sequence with fragmentation data (100% sequence coverage). All of this with minimal sample preparation, just dilution in the SMART Digest buffer.

Find out more at thermofisher.com/SMARTdigest

ThermoFisher
SCIENTIFIC