## High-Resolution Analysis of BSA Digest by UHPLC(2 columns connected in series) AS/LC-032

Peptide mapping is a method to analyze the changes of protein-constituting amino acids by separating peptide fragments formed by digesting proteins with enzymes using HPLC, etc. and then, comparing the chromatographic patterns. Recently, this method is also applied for the quality assessment of biopharmaceuticals. As many peptide peaks will emerge it is important

Recently, this method is also applied for the quality assessment of biopharmaceuticals. As many peptide peaks will emerge, it is important that high resolution can be achieved.

In Application Sheet (AS/LC-031), the result obtained by the high-resolution high-speed analysis using Hitachi ultra high-speed liquid chromatograph, ChromasterUltra Rs, with LaChromUltra II C18 high resolution column for UHPLC ( $3.0 \text{ mm I.D.} \times 250 \text{ mm}$ ,  $1.9 \mu \text{m}$ ) was introduced. This time, an example of the analysis in which two columns were connected in series for the purpose of achieving even higher resolution is introduced here. BSA digest was used as the model sample as it was in AS/LC-031.





Main system configuration: ChromasterUltra Rs DAD system

(6170 Binary Pump, 6270 Autosampler, 6310 Column Oven, 6430 Diode Array Detector, Organizer)

NOTE: These data are an example of measurement; the individual values cannot be guaranteed