Action of APPROX-DMS on the protein Beta-LG

An example illustrating the action of APPROX-DMS on the Beta-LG protein is shown below. The table presents snapshots of the DMS, TrimSet, and IM sets for each CCPi (cysteine-containing peptide) mass value during each iteration of the trimming process.

Supplementary table 1. *DMS*, *TrimSet* and *IM* mass sets for each *CCP_i* mass value generated from the tryptic digestion of the protein Beta-lactoglobulin (Beta-LG). The values presented here are retrieved at the end of each loop cycle (lines 5-17) in Figure 4.

| i | CCPi | DMS | TrimSet | IM |
|----|------|---|--------------------------------------|--------|
| 0 | 1064 | {0,1064} | {} | {} |
| 1 | 1192 | {0,1064, 1192, 2254} | {} | {} |
| 2 | 1658 | {0, 1064, 1192, 1658, 2254, 2720, 2849} | {} | {} |
| 3 | 1746 | {0, 1064, 1192, 1658, 1746, 2254, 2720, 2849, 2937} | {2809} | {} |
| 4 | 2275 | {0, 1064, 1192, 1658, 1746, 2275, 2720, 2849, 2937} | {2254, 2809} | {} |
| 5 | 2477 | {0, 1064, 1192, 1658, 1746, 2275, 2477, 2720, 2849, 2937} | {2254, 2809} | {} |
| 6 | 2535 | {0, 1064, 1192, 1658, 1746, 2275, 2535, 2720, 2849, 2937} | {2254, 2477, 2809} | {} |
| 7 | 2648 | {0, 1064, 1192, 1658, 1746, 2275, 2535, 2648, 2720, 2849, 2937} | {2254, 2477, 2809} | {} |
| 8 | 2776 | {0, 1064, 1192, 1658, 1746, 2275, 2535, 2648, 2776, 2849, 2937} | {2254, 2477, 2720, 2809} | {} |
| 9 | 2790 | {0, 1064, 1192, 1658, 1746, 2275, 2535, 2648, 2776, 2849, 2937} | {2254, 2477, 2720, 2790, 2809} | {} |
| 10 | 2930 | {0, 1064, 1192, 1658, 1746, 2275, 2535, 2648, 2776, 2849, 2937} | {2254, 2477, 2720, 2790, 2809, 2930} | {} |
| 11 | 3189 | {0, 1064, 1192, 1658, 1746, 2275, 2535, 2648, 2776, 2849, 2937, 3189} | {2254, 2477, 2720, 2790, 2809, 2930} | {3189} |