Table S2 parameters used for the database search in Mascot search engine

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| --- | --- |
| Item | Value |
| Type of search | MS/MS Ion search |
| Enzyme | Trypsin |
| Mass Values | Monoisotopic |
| Max Missed Cleavages | 2 |
| Fixed modifications | Carbamidomethyl (C)，  Itraq4plex (N-term)，iTRAQ4plex (K) |
| Variable modifications | Oxidation (M)，iTRAQ4plex (Y) |
| Peptide Mass Tolerance | ± 20 ppm |
| Fragment Mass Tolerance | 0.1Da |
| Protein Mass | Unrestricted |
| Database | ipi.human.v3.87.fasta |
| Database pattern | decoy |