



All original manuscripts submitted to MCP that contain protein and post-translational modification identifications determined by mass spectrometry must be in compliance with our established [guidelines for this type of data](#). Any required supplemental data, up to 100 mb, may be submitted along with the manuscript. If supplemental files are larger than this limit, authors must contact the editors before submitting their manuscript. Manuscripts containing identification data will be initially checked to ensure they comply with the guidelines and will be returned to authors, without further review, if found to be seriously deficient. **This does not constitute a review of the manuscript as the compliance checkers ONLY determine if the article conforms to the guidelines, i.e. contains the requisite information.** They do not judge the quality of the data or evaluate the scientific suitability of the manuscript. The actual review of the manuscript is only initiated after the compliance issues have been resolved. Manuscripts, which pass the compliance check, may be found not to be appropriate for publication, for other reasons. Manuscripts that are found to be non-compliant after two evaluations will not be considered further.

To aid authors in preparing their manuscripts, the check list of the items that must be included is given below. Authors are encouraged to print out this document and use it to ascertain that the complete set of required information has been included. [Click here to open a power point tutorial](#) that explains each point on the list, and why it has been included. Authors submitting this type of data for the first time are particularly encouraged to use both the checklist and tutorial.

Check list for Publication of Peptide & Protein Identification Data in MCP:

The following information should be included in the **Experimental** section:

1. Information on MS/MS database search

Name of peaklist-generating software and release version (number or date) given	<u>yes</u>	na PAGE 8
Parameters used – default vs altered - given	<u>yes</u>	na PAGE 8
Name of the search engine and release version (number or date) provided	<u>yes</u>	na PAGE 8
Search parameters included:		
enzyme specificity considered	<u>yes</u>	na PAGE 8
# of missed cleavages permitted	<u>yes</u>	na PAGE 8
fixed modification(s) (including residue specificity)	<u>yes</u>	na PAGE 8
variable modifications (including residue specificity)	<u>yes</u>	na PAGE 8
mass tolerance for precursor ions	<u>yes</u>	na PAGE 8
mass tolerance for fragment ions	<u>yes</u>	na PAGE 8
name of database searched and release version/date	<u>yes</u>	na PAGE 8
species restriction and justification for searching only a subset of a database	yes	na
number of protein entries in the database <i>actually</i> searched	<u>yes</u>	na PAGE 8
Cut-off score/expectation value for accepting <i>individual</i> MS/MS spectra provided	<u>yes</u>	na (SUPPLEMENT TABLE 1) (PAGE 9)
Justification of the threshold employed provided	yes	na



For large datasets
 estimation of false positive rate provided and information how this was
 calculated listed. yes na PAGE 9

If post-translational modifications are reported
 software/method used to evaluate site assignment given yes na

2. Peptide Mass Fingerprint Data

Name of software used for peak-picking and its release version given yes na

Parameters and thresholds used for peak-picking; e.g. intensity or S/N
 threshold, resolution, means of calibrating each spectrum, list of
 excluded contaminant ions and justification given yes na

Acceptance criteria provided yes na

3. Protein Appears in databases under different names and accession numbers

If peptides match to multiple members of a protein family, criteria used
 for selecting which one to report; i.e. how was the redundancy
 eliminated/handled, provided (This is an issue for *all*
 protein databases). yes na PAGE 8

How isoforms/individual members of a protein family
 were unambiguously identified provided yes na

4. Quantitative Studies

How the quantitation was performed (number of peaks, peak intensity,
 peak area, XIC) provided yes na PAGE 9

Minimum thresholds required for data to be used for quantitation given yes na PAGE 9

Justification of removal of outlier datapoints given. yes na PAGES 10-12

Explanation of statistics used to assess accuracy and significance of
 measurements provided. yes na PAGES 10-12
 PAGES 13-15

Indication of how biological and analytical reproducibility was addressed
 by experimental design provided yes na PAGES 10-12
 PAGES 13-15

Should be included in the **Results** section

5. For each protein identified the following should be reported in a table:

accession number	<u>yes</u>	na	}
number of <i>unique</i> (in terms of amino acid sequence) peptides identified	<u>yes</u>	na	
% sequence coverage identified from MS/MS data or a list of sequences identified	<u>yes</u>	na	

PAGE 9
 (Supplement Table)



6. In addition for single-peptide-based protein identifications or post-translationally modified peptides: – report in a single Table the following

sequence identified

the precursor m/z and charge observed

score/E-value for this peptide

+ **MS/MS** spectrum appropriately labeled should be included – masses detected as well as fragment assignments

yes na }
yes na } PAGE 9
yes na } (Supplement)
yes na } Table 2
 (Spectra Zip)
 file
 supporting data

7. In addition for Peptide Mass Fingerprint Data

Number of masses matched given

Number of masses not matched given

% sequence coverage provided

Criteria for acceptance supplied

yes na
 yes na
 yes na
 yes na

+ **MS** spectrum appropriately labeled should be included – masses detected as well as peptide assignments

yes na

8. For quantitation data:

Number of peptides used for protein quantitation measurement given

Protein quantitation measurement and accuracy (e.g. mean and standard deviation) provided

yes na } PAGE 10
yes na } PAGE 13-15
yes na } PAGE 16
 (Supplement
 Table 3)