CHAPTER V

CONCLUSIONS

1. The CU Peptide Database not only give information about peptide that come from the experiment, but also give information that come from the theoritical calculation such as molecular weight, net charge at any pH, isoelectric point and hydropathic index. In addition, program in the database can calculate unknown peptide if the sequence is known.

2. The database allows users to search for the desired peptide in a variety of search criteria by using operators. In addition, users can search by multiple fields. the more fields used in searching, the more specific the results are.

3. An interactive calculation in CU Peptide Database web page is rapid since it was written in JavaScript. When accessing this weg page, Internet browser with JavaScript interpreter downloads all JavaScript at a time, thus, calculation is performed immediately, no more data is loaded from server during the calculation.

4. The comparison of the result from the CU Peptide Database with data derived from experimental studies seems to support the hypothesis that, for peptides, the predictive value of hydropathic indexes may not be significant.