

CHAPTER II

EXPERIMENTAL OBJECTIVES

General objective

To determine total phenolic content, antioxidant activities and antimutagenicity of two *Solanum aculeatissimum* Jacq., namely, cockroach berry (Ma Khuea Pro) and yellow berried nightshade (Ma Khuea Lueng) and *Solanum melongena* L. namely, aubergine (Ma Khuea Muang Glom) that were raw and processed.

Specific objectives

1. To determine total phenolic content (using Folin-Ciocalteu colorimetric method) and antioxidant activities (using DPPH assay and FRAP assay) of the samples that were raw, steamed and fried.
2. To evaluate antimutagenicity against urethane induced somatic mutation and recombination in *Drosophila melanogaster* of the raw and processed samples.