

## **List of tables**

<b>Table 2.1</b>	Examples of plant secondary metabolites useful to humankind
<b>Table 2.2</b>	Types of terpenoids based on number of isoprene units
<b>Table 2.3</b>	Cloning and characterization of ginsenoside biosynthetic pathway genes in different <i>Panax</i> species
<b>Table 2.4</b>	Study of UDP glycosyltransferases related to ginsenoside biosynthesis in different <i>Panax</i> species
<b>Table 2.5</b>	Effects of various elicitors on the ginsenoside biosynthetic pathway gene expression and ginsenoside accumulation
<b>Table 2.6</b>	Differential expression of ginsenoside biosynthetic pathway genes in different organs
<b>Table 2.7</b>	Successful production of functional ginsenoside biosynthetic pathway enzymes in heterologous hosts using recombinant DNA technology/metabolic engineering
<b>Table 2.8</b>	Use of ginsenoside biosynthetic pathway genes to create transgenics
<b>Table 3.1</b>	Gradient parameters for the ginsenoside analysis
<b>Table 3.2</b>	Linearity of calibration curve for eight ginsenosides
<b>Table 3.3</b>	Bioinformatics tools used.
<b>Table 4.1</b>	Quantification of major ginsenosides (mg/g of dry weight) in <i>Panax sokpayensis</i>
<b>Table 4.2</b>	Summary of ESTs from SSH leaf and rhizome cDNA libraries.
<b>Table 4.3</b>	ESTs redundancy in leaf SSH library.
<b>Table 4.4</b>	ESTs redundancy in rhizome SSH library.
<b>Table 4.5</b>	<i>In silico</i> comparative analysis of unigenes from leaf SSH library of <i>P. sokpayensis</i> with available leaf transcriptome of <i>Panax</i> species.
<b>Table 4.6</b>	<i>In silico</i> comparative analysis of unigenes from rhizome SSH library of <i>P. sokpayensis</i> with available root/rhizome transcriptome of <i>Panax</i> species.
<b>Table 4.7</b>	Partial genes pertaining to ginsenoside biosynthesis amplified using degenerate primers.