

Contents

Acknowledgements.....	i
Foreword.....	iii
Contents.....	v
1. General introduction.....	1
1.1 Background.....	1
1.2 Objectives	2
1.3 Structure	3
1.4 Glossary.....	4
1.4.1. Terms relating to herbal medicines:.....	4
1.4.2. Terms relating to medicinal plant cultivation and collection activities: .	5
2. Good agricultural practices for medicinal plants	7
2.1 Identification/authentication of cultivated medicinal plants	7
2.1.1 Selection of medicinal plants.....	7
2.1.2 Botanical identity	7
2.1.3 Specimens.....	7
2.2 Seeds and other propagation materials	8
2.3 Cultivation	8
2.3.1 Site selection	9
2.3.2 Ecological environment and social impact.....	9
2.3.3 Climate	9
2.3.4 Soil.....	10
2.3.5 Irrigation and drainage	10
2.3.6 Plant maintenance and protection.....	10
2.4 Harvest	11
2.5 Personnel.....	12
3. Good collection practices for medicinal plants.....	13
3.1 Permission to collect.....	13
3.2 Technical planning.....	13
3.3 Selection of medicinal plants for collection.....	14
3.4 Collection	15
3.5 Personnel.....	16
4. Common technical aspects of good agricultural practices for medicinal plants and good collection practices for medicinal plants.....	17
4.1 Post-harvest processing	17
4.1.1 Inspection and sorting.....	17

4.1.2	Primary processing	17
4.1.3	Drying.....	18
4.1.4	Specific processing	19
4.1.5	Processing facilities.....	19
4.2	Bulk packaging and labelling.....	23
4.3	Storage and transportation	24
4.4	Equipment.....	24
4.4.1	Materials.....	24
4.4.2	Design, construction and installation.....	24
4.4.3	Identification.....	25
4.5	Quality assurance.....	25
4.6	Documentation.....	25
4.7	Personnel (growers, collectors, producers, handlers, processors)	26
4.7.1	General.....	26
4.7.2	Health, hygiene and sanitation	26
5.	Other relevant issues.....	29
5.1	Ethical and legal considerations	29
5.1.1	Intellectual property rights and benefits-sharing.....	29
5.1.2	Threatened and endangered species	29
5.2	Research needs	30
	Bibliography	31
	Annex 1. Good Agricultural Practice for Traditional Chinese Medicinal Materials, People's Republic of China.....	33
	Annex 2. Points to Consider on Good Agricultural and Collection Practice for Starting Materials of Herbal Origin.....	43
	Annex 3. Good Agricultural and Collection Practices for Medicinal Plants (GACP), Japan.....	55
	Annex 4. A model structure for monographs on good agricultural practices for specific medicinal plants	61
	Annex 5. Sample record for cultivated medicinal plants	65
	Annex 6. Participants in the WHO Consultation on Good Agricultural and Field Collection Practices for Medicinal Plants	69