

CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES
OF WILD FAUNA AND FLORA



Eighteenth meeting of the Animals Committee
San José (Costa Rica), 8-12 April 2002

Implementation of Decision 11.165 on trade in traditional medicines

LIST OF SPECIES TRADED FOR MEDICINAL PURPOSES

1. The Annex to this document has been prepared by the Secretariat on the basis of a list of species used in traditional medicine that was compiled by the International Fund for Animal Welfare (IFAW). A further update was provided by IFAW for this meeting, and this contribution gratefully acknowledged.
2. The Annex contains a provisional list of species known to be used for medicinal purposes, including CITES-listed and non-listed species. The list of species is probably incomplete (and does not include any plants) as the information does not seem to reflect the use of traditional medicines in all regions adequately. Input for further development of the list has been requested from the Plants Committee as well.
3. The Secretariat notes that the existence of records of the use of a species for medicinal purposes does not necessarily imply that specimens of those species are traded internationally. In order to compile the list called for in Decision 11.165, paragraph c), of species of plants and animals and the parts thereof traded for their medicinal properties, the Secretariat has requested UNEP-WCMC to determine the level of trade in the species in the Annex as recorded in the CITES database of statistics from annual reports. This information, if available in time, will be provided to the Committee for consideration at the meeting.

Provisional list of animal species used in traditional medicine

Family	Species	CITES Appendix	part(s) used where known
Accipitridae	<i>Aquila chrysaetos</i> ^{1, 24}	II	bone, feathers, eggs
Accipitridae	<i>Circus cyaneus</i> ¹	II/III	head, flesh, bone
Accipitridae	<i>Terathopius ecaudatus</i> ²	II	unspecified; whole carcass
Acipenseridae	<i>Acipenser sinensis</i> ¹	II	body, bladder
Acipenseridae	<i>Huso dauricus</i> ¹	II	body, liver
Alcedinidae	<i>Alcedo atthis</i> ¹		whole body
Agamidae	<i>Uromastyx aegyptius</i> ³	II	extract from live animals
Alligatoridae	<i>Caiman latirostris</i> ²⁵	I/II	skin
Ambistomatidae	<i>Ambystoma mexicanum</i> ²⁴	II	body
Anatidae	<i>Aix galericulata</i> ¹		flesh
Anatidae	<i>Anas platyrhynchos</i> ¹		flesh, feather
Anatidae	<i>Cairina moschata</i> ¹	III	flesh
Anatidae	<i>Cygnus cygnus</i> ¹		fat, down
Ardeidae	<i>Egretta garzetta</i> ¹	III	flesh
Boidae	<i>Boa constrictor</i> ²⁴	I/II	flesh
Bovidae	<i>Bubalus bubalis</i> ^{1, 8, 9, 10, 11}		gall stone, horn, genitalia
Bovidae	<i>Bos grunniens</i> ¹		horn
Bovidae	<i>Capricornis sumatraensis</i> ¹		bone
Bovidae	<i>Naemorhedus goral</i> ¹		fat, flesh, horn, liver, blood
Bovidae	<i>Procapra gutturosa</i> ¹		muscle, horn, fat
Bovidae	<i>Bos mutus</i> ^{1, 2}	I	horn, blood
Bovidae	<i>Bos javanicus</i> ³	I	horn
Bovidae	<i>Bos sauveli</i> ³	I	gall bladder, horn
Bovidae	<i>Bos taurus</i> ³	I	bone, gall bladder, horn
Bovidae	<i>Bubalus arnee</i> ³	III	gall bladder, horn
Bovidae	<i>Budorcas taxicolor</i> ³	II	horn
Bovidae	<i>Nemorhaedus sumatranensis</i> ³	I	horn, blood, gall bladder, hoof/foot, intestine, oil, skin, teeth, skull

Family	Species	CITES Appendix	part(s) used where known
Bovidae	<i>Saiga tatarica</i> ^{3,8,13, 14}	II	horn
Bovidae	<i>Cephalophus monticola</i> ^{2,5,7}	II	
Bovidae	<i>Sylvicapra grimmia</i> ^{2,5,7}		
Bovidae	<i>Raphicerus melanotis</i> ^{2,5}		
Bovidae	<i>Tragelaphus scriptus</i> ^{2,5}		
Bovidae	<i>Tragelaphus strepsiceros</i> ^{2,5}		tail bones, pelvic girdle
Bovidae	<i>Connochaetes gnou</i>		fat
Bovidae	<i>Aepyceros melampus</i> ²		
Bovidae	<i>Cephalophus natalensis</i> ²		
Bovidae	<i>Neotragus moschatus</i> ²		
Bovidae	<i>Oreotragus oreotragus</i> ²		
Bovidae	<i>Tragelaphus oryx</i> ²		fat; oil
Bovidae	<i>Naemorhedas</i> spp ¹⁴		horn
Bufo	<i>Bufo amatolicus</i> ^{2,7}		
Bufo	<i>Bufo boreas</i> ²⁶		body
Camelidae	<i>Camelus bactrianus</i> ¹		hairs, flesh, fat, gallbladder stone, milk
Canidae	<i>Canis latrans</i> ²⁴		flesh, bones, hair
Canidae	<i>Canis lupus</i> ¹	I/II	flesh, fat, thyroid
Canidae	<i>Cuon alpinus</i> ¹		skin, flesh
Canidae	<i>Nyctereutes procyonoides</i> ¹		flesh
Canidae	<i>Vulpes vulpes</i> ¹	III/not listed	heart, head, meat, liver, intestine, gallbladder, feet
Canidae	<i>Vulpes chama</i> ^{5,7}		
Canidae	<i>Lycaon pictus</i> ^{2,7}		fat
Canidae	<i>Canis lupus</i> ¹⁵	I/II	bone
Canidae	<i>Canis lupus</i> ⁹	I/II	penis
Cercopithecidae	<i>Colobus badius</i> ¹⁶	II	skin
Cercopithecidae	spp. ³	I/II	blood, bone, brain, excrement, gall bladder, skull
Cercopithecidae	<i>Macaca mulatta</i> ^{1,8,11}	II	flesh, bone, stone in gallbladder
Cercopithecidae	<i>Pygathrix roxellana</i> ¹	I	fat and flesh

Family	Species	CITES Appendix	part(s) used where known
Cercopithecidae	<i>Macaca</i> spp. ³	II	skull
Cercopithecidae	<i>Papio ursinus</i> ^{2,5,7}	II	bones and skin
Cercopithecidae	<i>Cercopithecus albogularis</i> ³	II	
Cervidae	<i>Elaphurus davidianus</i> ¹		flesh, horn, pilose antler, bone, fat
Cervidae	<i>Cervus eldii</i> ³	I	antler
Cervidae	<i>Mazama americana</i> ^{2,4}	I	antler
Cervidae	<i>Mazama gouazoupira</i> ^{2,5}		hooves
Cervidae	<i>Odocoileus virginianus</i> ^{2,4}		antler
Chamaeleonidae	spp. ⁴	II	whole body
Chamaeleonidae	<i>Bradypodion dracamontanum</i> ^{2,7}	II	whole body
Chamaeleonidae	<i>Bradypodion nemorale</i> ^{2,7}	II	whole body
Chamaeleonidae	<i>Bradypodion setaroi</i> ^{2,7}	II	whole body
Chamaeleonidae	<i>Bradypodion thamnobates</i> ^{2,7}	II	whole body
Cheloniidae	spp. ³	I	
Cheloniidae	<i>Caretta caretta</i> ¹	I	blood, scale and shell
Cheloniidae	<i>Eretmochelys imbricata</i> ^{3,11}	I	carapace (shell)
Cheloniidae	<i>Chelonia mydas</i> ^{3,24}	I	egg, flesh, oil, shell, fat, skin
Ciconiidae	<i>Ciconia ciconia</i> ¹		flesh, bone
Cnidaridae	spp. ³	II	dead individuals
Colubridae	<i>Elaphe taeniurus</i> ^{8,11}		skin slough
Colubridae	<i>Elaphe carinata</i> ^{8,11}		skin slough
Colubridae	<i>Enhydryis chinensis</i> ¹		skin, whole body
Colubridae	<i>Ptyas korros</i> ¹		whole body
Colubridae	<i>Zaocys dhumnades</i> ^{1,8}		whole body except intestines, skin, gall bladder, egg, fat
Columbidae	<i>Columba livia</i> ¹	III	flesh, egg
Cordylidae	<i>Cordylus giganteus</i> ^{2,7}	II	
Cordylidae	<i>Cordylus tropidosternum</i> ^{2,7}	II	
Cordylidae	<i>Cordylus warreni</i> ^{2,7}	II	
Corvidae	<i>Corvus monedula</i> ¹		flesh, gallbladder

Family	Species	CITES Appendix	part(s) used where known
Corvidae	<i>Pica pica sericea</i> ¹		flesh
Crocodylidae	<i>Crocodylus niloticus</i> ⁴	I/II	gall bladder
Crocodylidae	<i>Crocodylus osteolaemus</i> ⁴	I/II	gall bladder
Crocodylidae	<i>Alligator sinensis</i> ¹	I	scale, flesh
Crocodylidae	<i>Crocodylus niloticus</i> ^{3,17}	I/II	fat, skin, oil, faeces
Crocodylidae	<i>Crocodylus siamensis</i> ³	I	dried penis
Crocodylidae	<i>Crocodylus</i> spp. ³	I/II	"lumpy" bone on top of head, bile, gall bladder, teeth
Dasypodidae	<i>Cabassous centralis</i> ²⁴	III	bone, flesh, heart
Delphinidae	<i>Delphinus delphis</i> ^{1,2,7}	II	flesh, fat
Dugongidae	<i>Dugong dugon</i> ³	I/II	teeth
Elapidae	<i>Naja naja</i> ^{1,3}	II	whole body, venom, bile
Elapidae	<i>Ophiophagus hannah</i> ³	II	bone
Elephantidae spp.	spp. ³	I/II	skin
Elephantidae	<i>Elephas maximus</i> ^{1,3}	I	tusk, hide, flesh, bone, gallbladder, muscle, penis, teeth, urine, skin
Elephantidae	<i>Loxodonta africana</i> ^{2,3,4,5,6,7,17}	I/II	excrement, fat, skin, tusk, jawbone, gallstones, ivory
Emydidae	<i>Kachuga tecta</i> ³	I	shell
Emydidae	<i>Malaclemys terrapin</i> ¹⁸		flesh
Emydidae	<i>Morenia ocellata</i> ³	I	shell
Equidae	<i>Equus burchelli</i> ^{2,4}		fat
Equidae	<i>Equus grevyi</i> ⁴	I	fat
Equidae	<i>Equus przewalskii</i> ¹	I	flesh
Equidae	<i>Equus zebra zebra</i> ²	I	fat
Erinaceidae	<i>Erinaceus auritus</i> ¹¹		skin, dried gallbladder
Erinaceidae	<i>Erinaceus europaeus</i> ^{11,19}		meat, skin, dried gallbladder
Erinaceidae	<i>Hemiechianus dauricus</i> ¹¹		skin, dried gallbladder
Erinaceidae	<i>Atelerix frontalis</i> ^{2,5}		
Erithizontidae	<i>Coendou prehensilis</i> ²⁵		spines
Falconidae	<i>Falco tinnunculus</i> ²⁰	II	eggs
Felidae	spp. ³	I/II	bone, oil

Family	Species	CITES Appendix	part(s) used where known
Felidae	<i>Acinonyx jubatus</i> ^{2,4}	I	skin, fat
Felidae	<i>Leptailurus serval</i> ²	II	skin
Felidae	<i>Lynx rufus</i> ^{2,4}	II	fat
Felidae	<i>Panthera leo</i> ^{2,3,4,6,7,17}	II	faeces, skin, bone, fat
Felidae	<i>Panthera pardus</i> ^{1,2,3,4,5,6,17}	I	skin, flesh, bone, fat, heart
Felidae	<i>Panthera tigris</i> ^{1,3,8,13}	I	teeth, stomach, intestines, dried bones, kidney, gallbladder, fat, eye, sinew, nail, meat, bone, bone paste, bone powder, penis
Felidae	<i>Puma concolor</i> ^{2,4}	I/II	fat
Galagonidae	<i>Galago moholi</i> ²	II	
Giraffidae	<i>Giraffa camelopardalis</i> ^{4,7}		tail, fat, unspecified
Gruidae	<i>Grus japonensis</i> ¹	I	flesh, bone, brain
Helodermatidae	<i>Heloderma horridum</i> ³	II	dried venom
Hippopotamidae	<i>Hippopotamus amphibius</i> ^{3,7}	II	fat, unspecified
Hirudinidae	<i>Hirudo medicinalis</i> ³	II	body
Hyaenidae	<i>Hyaena hyaena</i> ²⁰		blood
Hyaenidae	<i>Proteles cristatus</i> ^{5,7}	III	
Hyaenidae	<i>Crocuta crocuta</i> ^{7,12}		fat, eyebrow; hair/skin; gland paste, blood
Hydrophiidae	<i>Laticauda semifasciata</i> ¹		whole body
Hystricidae	spp. ³	III	intestine, quill, stomach, tail
Hystricidae	<i>Hystrix cristata</i> ^{4,18}	II	quill
Hystricidae	<i>Hystrix brachyura</i> ³		quill
Hystricidae	<i>Hystrix africaeaustralis</i> ^{2,5,7}		quills; unspecified
Iguanidae	<i>Iguana</i> spp. ²⁴	II	flesh, heart
Loridae	<i>Nycticebus</i> spp. ³	II	
Manidae	spp. ³	II	scales
Manidae	<i>Manis pentadactyla</i> ⁸	II	scales
Manidae	<i>Manis javanica</i> ³	II	scales
Manidae	<i>Manis pentadactyla</i> ^{3,13}	II	scales
Manidae	<i>Manis temminckii</i> ^{2,3}	II	scales, blood

Family	Species	CITES Appendix	part(s) used where known
Meloidae	<i>Lytta mirifica</i> ²¹		all
Molossidae	<i>Tadarida brasiliensis</i> ²⁶		flesh
Monodontidae	<i>Monodon monoceros</i> ³	II	teeth
Moschidae	<i>Moschus berezovskii</i> ³	II	pod, gland, musk, dried secretion obtained from male musk gland
Moschidae	<i>Moschus moschiferus</i> ^{3, 17}	II	musk, musk pod, musk gland, dried secretion obtained from male musk gland
Moschidae	<i>Moschus chrysogaster</i> ¹³	I/II	dried secretion obtained from male musk gland
Moschidae	<i>Moschus sifanicus</i> ¹³	I/II	dried secretion obtained from male musk gland
Moschus	spp. ³	I/II	musk pod, gland
Muridae	<i>Rattus norvegicus</i> ¹		flesh or whole body, skin, liver, kidney, gallbladder, fat, faeces
Muridae	<i>Rhizomys sinensis</i> ¹		flesh, teeth, fat
Muscicapidae	<i>Turdus merula mandarinus</i> ¹		flesh
Mustelidae	<i>Lutra lutra</i> ^{1,3}	I	flesh, liver, bone, feet, gallbladder, skin and fur
Mustelidae	Lutrinae spp. ³	I/II	bladder, liver, reproductive organs, teeth
Mustelidae	<i>Martes zibellina</i> ¹		tail, fur
Mustelidae	<i>Meles meles</i> ¹		flesh, fat
Mustelidae	<i>Mustela sibirica</i> ¹	III	flesh
Mustelidae	<i>Mellivora capensis</i> ^{2,7}	III	fat
Otariidae	<i>Arctocephalus pusillus</i> ^{2,3,5,7,10}	II	fat, head, genitalia, penis
Otariidae	<i>Callorhinus ursinus</i> ^{1,8,10,13}		penis, testis, dried penis and testis
Otariidae	<i>Arctocephalus australis</i> ¹⁰	II	penis
Otididae	<i>Otis tarda</i> ¹	II	flesh
Pangasiidae	<i>Pangasianodon gigas</i> ³	I	gall bladder, pectoral spine
Phasianidae	<i>Chrysolophus pictus</i> ¹		flesh
Phasianidae	<i>Phasianus colchicus</i> ¹		flesh or whole body, liver, tail feathers, brain
Phasianidae	<i>Syrnaticus reevesii</i> ⁹		flesh
Phasianidae	<i>Pavo muticus</i> ³	II	"end" feather, gall bladder, stock of tail feather
Phocidae	<i>Phoca vitulina</i> ¹		fat

Family	Species	CITES Appendix	part(s) used where known
Physeteridae	<i>Physeter catodon</i> ^{1,3,15,17}	I	ambergris
Picidae	<i>Campephilus imperialis</i> ²⁴	I	flesh
Picidae	<i>Picus canus</i> ¹		flesh or whole body
Platysterninae	<i>Platysternon megacephalum</i> ¹		whole body
Procaviidae	<i>Dendrohyrax arboreus</i> ²		whole body
Procyonidae	<i>Nasua narica</i> ²⁴	III	flesh, heart
Procyonidae	<i>Nasua nasua</i> ²⁵	III	penis
Psittacidae	<i>Psittacula alexandri</i> ⁴	II	flesh
Pteroclididae	<i>Pteropus</i> spp. ³	I/II	faeces, heart, liver
Pythonidae	<i>Python regius</i> ⁴	II	oil
Pythonidae	<i>Python molurus</i> ¹	I/II	gallbladder, fat, flesh
Pythonidae	<i>Python molurus</i> ³	I/II	
Pythonidae	<i>Python reticulatus</i> ³	II	blood
Pythonidae	<i>Python</i> spp. ³	I/II	bone, gall bladder, oil
Pythonidae	<i>Python sebae</i> ^{2,3,5,6,7}	II	skin, backbone, bone, fat
Rallidae	<i>Rallus aquaticus</i> ¹		flesh
Rheidae	<i>Rhea americana</i> ²⁵	II	fat
Rhinocerotidae	spp. ^{3,8}	I	horn, blood, muscle, skin, teeth, toe
Rhinocerotidae	<i>Ceratotherium simum</i> ⁴	I	horn
Rhinocerotidae	<i>Diceros bicornis</i> ^{2,3,4,7}	I	horn, hair
Rhinocerotidae	<i>Rhinoceros</i> spp. ^{12,21}	I	horn, skin
Rhinocerotidae	<i>Ceratotherium simum cottoni</i> ³	I	horn
Rhinocerotidae	<i>Rhinoceros unicornis</i> ³	I	horn
Sciuridae	<i>Trogopterus xanthipes</i> ⁸		faeces
Sciuridae	<i>Sciurus vulgaris</i> ¹		whole body
Sciuridae	<i>Trogopterus xanthipes</i> ¹¹		faeces
Scolopacidae	<i>Tringa totanus</i> ¹		flesh
Spheniscidae	<i>Spheniscus demersus</i> ²	II	
Spheniscidae	<i>Tauraco corythaix</i> ²	II	
Strigidae	<i>Glaucidium cuculoides</i> ¹	II	flesh

Family	Species	CITES Appendix	part(s) used where known
Struthionidae	<i>Struthio camelus</i> ²	I/not listed	
Suidae	<i>Phacochoerus aethiopicus</i> ^{2,5}		
Syngnathidae	<i>Hippocampus histrix</i> ^{8,11}		whole body
Syngnathidae	<i>Hippocampus japonicus</i> ¹¹		whole body
Syngnathidae	<i>Hippocampus kelloggii</i> ^{8,11}		whole body
Syngnathidae	<i>Hippocampus kuda</i> ¹¹		whole body
Syngnathidae	<i>Hippocampus reidi</i> ²⁵		fat
Syngnathidae	<i>Hippocampus trimaculatus</i> ^{8,11}		whole body
Testudinidae	spp. ³	I/II	shell
Testudinidae	<i>Chinemys reevesii</i> ^{1,8,13}		turtle shell, flesh, blood, glue of tortoise, plastron, bile, dried plastron
Testudinidae	<i>Geochelone carbonaria</i> ²⁵	II	shell
Testudinidae	<i>Geochelone elegans</i> ³	II	shell
Testudinidae	<i>Geochelone pardalis</i> ³	II	shell
Testudinidae	<i>Indotestudo elongata</i> ³	II	shell
Testudinidae	<i>Manouria impressa</i> ³	II	shell
Thryonomyidae	<i>Thryonomys swinderianus</i> ²		
Trichechidae	<i>Trichechus inunguis</i> ²⁵	I	fat
Tridacnidae	<i>Tridacna squamosa</i> ¹	II	shell
Trionychidae	<i>Pelochelys bibroni</i> ¹		shell, flesh, fat, gallbladder
Trochilidae	<i>Eupherusa</i> spp.	II	heart
Ursidae	spp. ³	I/II	bile, bone, bones of hand, gall bladder, hair, teeth
Ursidae	<i>Ursus arctos</i> ⁸	I	gall bladder, gall, dried gall bladder
Ursidae	<i>Ursus thibetanus</i> ^{8,13}	I	gall bladder, gall, dried gall bladder
Ursidae	<i>Helarctos malayanus</i> ³	I	gall bladder
Ursidae	<i>Melursus ursinus</i> ³	I	gall
Ursidae	<i>Ursus americanus</i> ³	II	gall bladder
Varanidae	<i>Varanus</i> spp. ³	II	oil
Varanidae	<i>Varanus niloticus</i> ^{2,7}	II	fat, unspecified
Vespertilionidae	<i>Vespertilio murinus</i> ⁸		faeces

Family	Species	CITES Appendix	part(s) used where known
Vespertilionidae	<i>Vespertilio superans</i> ^{1,8}		whole body, faeces
Viperidae	<i>Crotalus durissus</i> ^{3, 24, 25}	III	fresh/dried venom, bone, flesh, skin, fang, tail rattle
Viverridae	<i>Viverra zibetha</i> ¹	III	meat, secretion
Viverridae	<i>Genetta genetta</i> ^{2,5}		skin

References

- 1 The Chinese Materia Medica Dictionary, Jiangsu New Medical College, 2000, Shanghai
- 2 TRAFFIC International, Searching for a Cure, Conservation of Medicinal Wildlife Resources in East and Southern Africa, Marshall, Nina T., 1998
- 3 TRAFFIC, Doc. AC.15.11, February 1999
- 4 S.J. Muchina Munyua, 2001
- 5 Simelane, T.S. and Kerley G.I.H., 1998, Conservation implications of the use of vertebrates by Xhosa traditional healers in South Africa in South African Wildlife
- 6 Mzimela T., 1995. The muti business. Indicator South Africa. 12(2)
- 7 Pujol, J. 1993. NaturAfrica. The Herbalist Handbook. African Flora, Medicinal Plants. Pp 25-28. Jean Pujol Natural Healers Foundation. Durban
- 8 Chinese Herbal Medicine Materia Medica Revised Edition, Dan Bensky and Andrew Gamble with Ted Kaptchuk, Eastland Press, 1993, Seattle
- 9 Pinniped penises in the marketplace: a progress report. D. Lavigne, P.J. Wilson, R.J. Smith, B.N. White, Working Paper 3.3, Molecular Identification of Cetaceans workshop, 14-16 June 1999. La Jolla, California.
- 10 Pinniped penises in trade: a molecular-genetic investigation, S. Malik, P.J. Wilson, R.J. Smith, D.M. Lavigne, B.N. White, Conservation Biology 11(6), Pages 1365-1374.
- 11 The Chinese Materia Medica, Xu Guojun, He Hongxian, Xu Luoshan & Jing Rongluan, 1996, Beijing
- 12 Tibetan Medicine, the Ven. Rechung Rinpoche Jampal Kunzang, University of California Press, 1973, Berkeley and Los Angeles, Page 71 -72
- 13 Rare Chinese Materia Medica, Zhang Enqin et al., 1991, Shanghai
- 14 Planetary Herbology, An Integration of Western Herbs Into The Traditional Chinese And Ayurvedic Systems, Dr. Michael Tierra, C.A., N.D., O.M.D., Lotus Press, 1988, Twin Lakes, Wisconsin
- 15 Lev, E., Amar Z., 2000. Ethnopharmacological survey of traditional drugs sold in Israel at the end of the 20th century. Journal of Ethnopharmacology 72, 191-205.
- 16 Swantz, L (1990). The Medicine Man: Among the Zaramo of Dar-es-salaam, Scandanavia Institute of African Studies and Dar-es-salaam University Press, Pages 34 and 134

- 17 El-Kamali, H.H., 2000. Folk medicine use of some animal products in Central Sudan. *Journal of Ethnopharmacology* 72, 279-282.
- 18 Edinburg, T.L. (1998) Traditional Medicines of South Africa, *The Pharmaceutical Journal*, Volume 261, No. 7007, Pages 242-244
- 19 Yesilada, E., Sezik E., Honda, G., Takaishi, Y., Takeda, Y., Tanaka, T. 1999. Traditional Medicine in Turkey IX: Folk medicine in north-west Anatolia. *Journal of Ethnopharmacology* 64, 195-210.
- 20 Watt, J.M. and Breyer-Brandwijk, M. G. (1962), *The Medicinal and Poisonous Plants of Southern and Eastern Africa*, 2nd Edition, Publisher E and Livingstone LTD, Edinburg and London, UK
- 21 *The Chinese Materia Medica*, Zhang Enqin et al., 1996, Shanghai
- 22 KAMPO, *How the Japanese Updated Traditional Herbal Medicine*, Akira Tsumura , Japan Publications, Inc., 1991, Tokyo and New York, Page 166-167
- 23 Sesik, E., Yesilada, E., Honda, G., Takaishi, Y., Takeda, Y., Tanaka, T. 2001. Traditional Medicine in Turkey. Folk medicine in Central Anatolia. *Journal of Ethnopharmacology* 75, 95-115.
- 24 Roa, M.A. (1997) , XV Simposio sobre fauna Silvestre, Facultad de Medicina Veterinaria y Zootecnia, UNAM, 29 al 31 de octubre, México D.F.
- 25 Costa-Neto, E.M. (1999), *Journal of Ethnopharmacology*, Volume 65, 225-230
- 26 Barajas, E. (1951) *Los animales usados en la Medicina popular Mexicana*, Tesis Prof., Facultad de Ciencias, UNAM, Mexico
- 27 Ramos, J. and Pino, J.M. (1998) , *Journal of Ethnobiology*, Volume 8(2), 192-202