

Herbal Solvent Percentage & Ratio Chart				
Common Name	Botanical Name	Range	Ratio	Notes
Alfalfa leaf	Medicago sativa	40-50%	1 to 4	
Angelica root	A. pinnata	70-75%	1 to 2	
Arnica flower	Arnica cordifolia	50-70%	1 to 3	liniment, rubbing alcohol
Aspen bark	Populus tremuloides	50-60%		
Barberry root	Berberis or Mahonia fremontii	50-70%		
Bayberry bark	Myrica cerifera	35-60%		
Benzoin gum	Styrax benzoin	95%		
Bethroot	Trillium pelatum	60-70%		
Betony	Stachys officinalis	35-50%		
Bistort	Polygonum bistorta	35-50%		
Black Cohosh (root)	Cimicifuga racemosa	60-85%		
Black walnut (hulls)	Juglans nigra	40-50%		
Bladderwrack	Fucus spp	40-50%		
Blessed Thistle	Cnicus benedictus	45-60%		
Blood root	Sanguinaria canadensis	55-70%		
Blue Cohosh (root)	Caulophyllum thalictroides	40-70%		
Blue flag (root)	Iris versicolor	65-90%		
Blue Vervain (leaf and flower)	Verbena hastata	40-50%		
Burdock (root)	Arctium lappa	40-50%; seed 60-70%		
Broom (flowering tops)	Cytisus scoparius	40-65%		
Buchu (leaf)	Agathosma betulina and A. crenulata	50-65%		
Calamus (root)	Acorus calamus	50-65%		
Calendula (flower)	Calendula officinalis	50-80%		
Cascara sagrada	Rhamnus purshiana	20%		
Catnip (leaf)	Nepeta cataria	50-60%		
Cayenne fruit	Capsicum frutescens	80-95%		
Chamomile (flower)	Anthemis nobilis	45-65%		
Chaparral	Larrea divaricata	70-75%		
Chaste berry	Vitex agnus-castus	40-60%		
Chickweed	Stellaria media	35-65%		
Cleavers	Galium aparine	30-65%		
Collinsonia (rhizomes/roots)	C. canadensis	40-75%		
Comfrey (leaf)	Symphytum officinale	50-65%; root 25-50%		
Corn silk	Zea mays	35-65%		
Cramp bark	Viburnum opulus	50-60%		
Dandelion (root)	Taraxacum officinale	35-65%		
Devil's Claw (tubers)	Harpagophytum procumbens	50-75%		
Dong quai	Angelica sinensis	20-65%		
Echinacea (root)	E. angustifolia	45-75%		
Elder flower	Sambucus canadensis	35-65%		
Elecampane root	Inula helenium	45-70%		
Eyebright	Euphrasia officinalis	35-50%		
False Unicorn root	(Chamaelirium luteum)	45-70%		
Fennel (seed)	Foeniculum vulgare	60-70%		
Feverfew (leaf/flower)	Tanacetum parthenium	50-75%		
Figwort (leaf/flower)	Scrophularia nodosa	50-60%		
Fringetree (bark)	Chionanthus virginicus	55-70%		
Garlic	Allium sativum	65%		
Gentian (root)	Gentiana lutea	35-60%		
Ginkgo (leaf)	G. biloba	55-75%		
Ginseng (root)	Panax quinquefolium	25-70%		
Goldenrod	Solidago canadensis	45-65%		
Goldenseal (root)	Hydrastis canadensis	50-65%		
Gotu kola (herb)	Centella asiatica	25-60%		
Grindelia (buds/flowers)	G. camporum	65-70%		
Hawthorn (berry)	Crataegus laevigata	40-70%		
Hops (strobile)	Humulus lupulus	50-75%		

Horehound	Marrubium vulgare	35-65%		
Horseradish	Armoracia rusticana	40-55%		
Horsetail	Equisetum arvense	35-65%		
Hydrangea (root)	Hydrangea arborescens	30-50%		
Hyssop (herb)	Hyssopus officinalis	35-60%		
Juniper (berry)	Juniperus communis	60-75%		
Kava kava	Piper methysticum	60-75%		
Licorice root	Glycyrrhiza glabra	20-75%		
Lobelia (herb)	Lobelia inflata	40-70%		
Ma Huang	Ephedra spp	20-65%		
Maidenhair fern	Adiantum capillus-veneris	60%		
Marshmallow	Althaea officinalis	20-65%		
Milk thistle (seed)	Silybum marianum	70-95%		
Motherwort (herb)	Leonorus cardiaca	45-70%		
Mugwort	Artemisia vulgaris	40-50%		
Mullein (flowers)	Verbascum thapsus	35-70%; leaf/root 50-60%		
Myrrh (gum)	Commiphora myrrha	85-95%		
Nettle (leaf)	Urtica dioica	35-50%		
Oats	Avena sativa	40-65%		
Oregon Grape root	Mahonia aquifolium	45-70%		
Osha root	Ligusticum porterii	60-75%		
Periwinkle	Vinca minor	35-50%		
Passionflower	Passiflora incarnata	40-65%		
Peppermint	Mentha piperita	45-60%		
Pipsissewa (herb)	Chimaphila umbellata	35-60%		
Plantain (leaf)	Plantago major	35-55%		
Pleurisy (root)	Asclepias tuberosa	40-50%		
Poke root	Phytolacca americana	40-65%		
Prickly ash (bark)	Zanthoxylum americana	55-70%		
Propolis	bee secretion derived from aspen and poplar	65-95%		
Pulsatilla (flowering plant)	P. vulgaris	70%		
Red clover (flower)	Trifolium pratense	40-65%		
Red raspberry (leaf)	Rubus idaeus	35-50%		
Red root/New Jersey Tea	Ceanothus americanus	35%		
Sage	Salvia officinalis/ S. apiana	50-75%		
Saw Palmetto (berry)	Serenoa repens	50-80% (must include lipids)		
Shepherd's purse	Capsella bursa-pastoris	40-65%		
Skullcap	Scutellaria lateriflora	45-65%		
Spikenard (root)	Aralia racemosa	50-60%		
Squawvine	Mitchella repens	35-65%		
St. Johnswort (leaf/flower)	Hypericum perforatum	55-65%		
Toadflax	Linaria vulgaris	50-65%		
Turkey rhubarb (root)	Rheum palmatum	35-50%		
Usnea (lichen)	Usnea spp	70-95%		
Uva ursi	Arctostaphylos uva-ursi	40-65%		
Valerian (root)	Valeriana officinalis	50-65%		
White Oak bark	Quercus alba	15-50%		
White pine	Pinus album	60%		
White willow (bark)	Salix alba	35-50%		
Wild Geranium (root)	Geranium maculatum	35-55%		
Wild Ginger (root)	Asarum canadense	60-75%		
Wild Indigo (root)	Baptisia tinctoria	50-65%		
Wild yam root	Dioscorea spp	55-65%		
Witch hazel (bark)	Hammamelis virginiana	40-65%		
Yarrow (flower)	Achillea millefolium	35-65%		
Yellow dock (root)	Rumex crispus	40-50%		
Yucca (root)	Yucca spp	65%		

SOLVENTS	MATERIALS EXTRACTED			
Water	Some alkaloids, gums (limited in action, but does soften), sugars, proteins/enzymes, vitamins (some), tannins, glycosides, saponins, bitter compounds, starch (that which is miscible), polysaccharides (in hot water), pectins			
Vinegar	Bitter compounds, glycosides, sugars, tannins			
Aqueous ethanol				
50-70% alcohol to water	Limited alkaloids, bitter compounds, enzymes, glucosides, salts, sugar, some tannins, vitamins			
Glycerin	Bitter compounds, glycosides, dilute saponins, tannins			
Absolute alcohol	Some alkaloids, balsam, fats, volatile oils, resins sugars, some tannins, vitamins, waxes			
Lipids (fats, oils)	Camphors, volatile oils, fat soluble vitamins, wax (when heated)			