

Tincturing Worksheet Using Grain Alcohol

	Enter	
Weight of fresh herb	500	<i>these are sample numbers</i>
Weight of dry herb	200	
Volume of Pressed Liquid	900	

Absolute alcohol amount 0.95

Calculating percentage of water content of herb

Note: volume is in ml and weight is in grams

Formulas I used - be sure to use a percentage format for these cells

	Percentage	
Dry weight	40.00%	$=((\text{DriedHerbWeight}/\text{FreshHerbWeight}) * 100) * .01$
Water content	60.00%	$= (\text{Total} - \text{DryWeight})$
Total	100.00%	$= (1)$

Calculating amount of grain alcohol to use

	grain alcohol in ml	
weight/volume ratio 1:2	1000	$= (\text{FreshHerbWeight} * 2)$
Calculated amount of Total Menstruum	1300	$= (\text{GrainAlcoholInML} + (\text{FreshHerbWeight} * \text{WaterContent}))$

Calculating Return 69% $= ((\text{PressedVolume} / \text{TotalMenstruum}) * 100) * .01$

Calculating absolute alcohol content in finished tincture

	absolute content	
	950	$= (\text{GrainAlcoholInML} * \text{GrainAlcAbsAmt})$
Absolute Alcohol Percentage	73%	$= ((\text{AbsoluteContent} / \text{TotalMenstruum}) * 100) * .01$

so in this example, we end up with 73% alcohol in the tincture which I'd dilute in half before use. I like to keep the alcohol content in my tinctures between 30 and 50%. I add the tincture to tea, so it's diluted even more before use, but I still like to use as little alcohol as possible. A little glycerine or distilled water can be used for dilution.