

Adventures in Homebrewing - www.HomeBrewing.org 313 - 277 - 2739 (BREW)

## Black Dog Lager

All-Gra	in	A classi	Original Gravity: 1.050			
	All Crain Regins					Final Gravity: 1.013
	All Grain Recipe					Color SRM : 26.40
Procedure : Please re	AG99-0162	hoforo you hogin k	in brewing, to ensure you have all the ingredients and fully understand the process.			Alcohol by Volume : 4.87
				r brewing equipment. Assemble your mash		IBU : 23.69
Clean	t is important to tun. Add 1 quart water first, you w time to add your water. Place lid c	Grains : 8 lbs 2 Row Malt 7 oz Carafa 1 7 oz Munich 7 oz Cara Munich				
Mash	After 10 minutes you can check your temperature. You will be between 149°F and 156°F assuming you measured your water and grains correctly. Replace lid and "Mash" for 1 hour. Start to heat your sparge water at this point. You will need enough 200°F water f your expected final volume (5 gallons if you want five gallons of brew).					
Conversion	After mashing for one hour, you will want to check for conversion of starch to sugar. This will be done by placing a small amount of grain free wort on a white plate or bowl. Add one drop of "Tincture of lodine" to the wort. If it quickly disappears or stays/remains red, you are ready to move on. If the iodine turns black, starch is still present. Calibrate your thermometer. Recheck the temperature of th mash. If both are accurate, do another iodine test every 20 minutes until conversion is complete.					
Sparge	Conversion is now complete. Slowly drain 1/2 gallon of wort and pour it back on top of your mash. This process (Vorlauf) is used to clear your wort. You may need to run more than 1/2 gallon. When wort is clear, sparging is your next process. Sparging is no more than rinsing the sweet wort from the grains in your mash tun. You will want to gently pour 200°F water over your grains (try to keep an inch or so of clean water on top of the grain bed). SLOWLY collect your wort from the spigot at the bottom of your mash tun. This process should take ONE HOUR. If this is rushed, your gravity will be lowtake your time!					
Boil	After ONE HOUR and you have collected enough wort, it is time to start your boil. Keep in mind you will lose approximately 15% of your boil due to evaporation. If you want five gallons of beer, start with six gallons of wort. You are now on familiar ground. You will simply add your hops as scheduled in the recipe. No need to add specialty grains, they were in your mash. Be sure to add your wort chiller to the last 15 minutes of the boil.					
Hop & Additive Schedule		Ounces	Hop/Additives	Hop Addition	Boil Time (minutes)	
		1	5 HBU Pack	Boil/Bittering	60	
		0.25	oz Hallertau	Flavor	15	
		0.25 oz Tettnang		Flavor	15	
		0.25 oz Hallertau		Aroma	5	_
			oz Tettnang	Aroma	5	
Cooling the wort and preparing the fermentor	Once the 60 minute boil is over, it is time to cool the wort. There are many ways to cool a wort, the AIH recommendation is a wort chiller. Cool the wort to approximately 100° F as quickly as possible. The fermenting equipment needs to be sanitized. This can be done while the wort is cooling. Be sure to clean and sanitize the fermenters, airlock, lid, hose, hydrometer and test jar and rubber stopper. Anything that may come into contact with the wort should be sanitary. Transfer the wort into the primary fermenting vessel, then top off with cold water until a total of 5.125 gallons is in the primary fermenter back ar forth once the lid is in place.					
Take the reading	This is the time that you will want to take a specific gravity reading. Use a hydrometer and record the reading.					
Pitch the yeast	of the type of yeast you have. Seal the fermenter tight. Attach the sanitized airlock and stopper. Fill the airlock with water. Fermentation should begin within 24 - 48 hours. "Do Not Disturb" until fermentation is complete. German Lager 6 Fermentis Saflage					
	During the fermentation process, CO2 will begin to escape the airlock. Follow manufacturer's pitch instructions and recommended temperature for fermentation.					
Fermenting - Primary	Once the Primary fermentation is complete, approximately 1 to 2 weeks, rack the beer into the secondary fermenter.					
Fermenting - Secondary	If the recipe calls for Dry Hops or Additives that need to go into the secondary, add these now. The Secondary Fermentation should be complete within 1 to 2 weeks.					
Bottling	Siphon finished beer into a bottling bucket. If the recipe calls for any Bottling Additives to be added to the bottling bucket, add them now.					
	At this point, follow bottling or kegging proceduresCheers!					
	Δ	dventures in F	lomebrewing - www.HomeB	rewing.org 31	3 - 277 - 2739 (BREW)	
				3.0.901		