



Grape and Granary
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G & G Beer Brewing Kit
MALT EXTRACT- WITH GRAIN STEEPING

GG54
HOLIDAY SPICED ALE- G & G

Ingredients

Syrup Malt Extract #1
Syrup Malt Extract #2
Dry Malt Extract #3
Light Clover Honey #4
Specialty Grains #5
Spices #6
Bittering Hops #7
Flavor Hops #8
Priming Sugar #9
Irish Moss (Whirlfloc Tablet)
Sock for Steeping
Yeast

Equipment

S.Steel or enamel canning pot
Primary fermenter w/ lid
Airlock and stopper
Siphon equipment
Hydrometer/thermometer
Sanitizer
Caps
Capper

Recipe Specifics

Batch size- 5 us gallons
Total grain-.63 lbs
Anticipated SG 1.066
Anticipated color SRM- 13
Anticipated IBU-26
Boil time- 45 minutes

Process Specifics

Grain steeping temperature- 150-160 deg f.
Recommended Yeast strain- wyeast 1056
Fermentation temperature- 60-75 deg f.
Primary fermentation time- 3-5 days
Secondary fermentation time- 5-7 days
Carbonation- 5 oz dextrose
Ideal conditioning time- 4-6 weeks

For a complete list of instruction sheets, visit <http://www.grapeandgranary.com/ggrec.htm>

1) Sanitize primary fermenter, lid, airlock (preferably using one-step or iodine sanitizer)

2) Pour approximately 1 gallon dechlorinated water into your boiling kettle. Bring water to 150-160 degrees F. Place specialty grains (#5) in steeping sock and place sock in water. Allow grains to steep for 20 minutes at 150-160 deg. F.. Stir well repeatedly throughout the 20 minutes to get maximum color, flavor and aroma extraction. After 20 minutes remove grains. Add an additional 2-3 gallons of water to your kettle. Bring water to a boil.

3) Turn off heat. Add all syrup malt extract (#1 & #2, dry malt extract (#3), honey (#4) and bittering hops (#7) . Stir well so that ingredients do not stick to the bottom of kettle. Hops may be put directly into kettle, straining bag not required. Additional water may be added at this time.

4) Bring this mixture to a boil (watch for possible boil over). Allow to boil at a good rolling boil for 45 minutes. Control heat during boil so boil-over does not occur.

15 minutes before the end of the 45 minute boil add flavor hops (#8), and Irish Moss (whirlfloc tablet) into the boiling wort.

5 minutes before the end of the 45 minute boil, add the spices (#6) into boil kettle (put spices in steeping sock for easy extraction).

5) After 45 minute boil, turn off heat. If possible, place boiling pot into a sink of cold water. Circulate cold water around the outside of the pot for 15-20 minutes. Cool the wort to 110-120 degrees Fahrenheit. **Remove bag of spices.**

Pour or siphon wort from boiling kettle to primary fermenter (attempt to leave most of the hop residue and any proteins behind). Add enough cold water (refrigerated with no chlorine) to the wort and bring the volume up to 5 gallons.

6) Check temperature of wort and obtain 60-70 deg F.. If necessary, place primary fermenter into a sink of cold water to achieve this temperature range.

7) Add yeast- if using liquid yeast make sure it has previously been incubated or have yeast starter ready. If dry yeast is being used, rehydrate according to manufacturers instructions or sprinkle on top of wort. Check starting specific gravity with hydrometer. Fill airlock half full with water and attach to primary fermenter lid. Fermentation will commence within 24 to 72 hours.

8) When airlock slows (only bubbles 1 time per minute) check specific gravity. If doing a one stage fermentation go to step 10.

9) **RECOMMENDED STEP-** Siphon beer off yeast sediment into a 5 gallon glass jug. Do not splash. Allow beer to sit in carboy until clear usually 5-7 days. Add a fining agent if needed (not included in this kit).

10) Sanitize recappable beer bottles. Siphon beer from primary or secondary fermenter into priming container. Dissolve priming sugar (#9) in 1 cup boiling water. Add this sugar mixture to the beer in the priming/bottling container. Stir well but do not splash.

11) Fill bottles to within one inch of the top. Cap bottles and allow to sit at 60-75 degrees F. for two weeks. The bottles may then be refrigerated. The beer may be consumed after two weeks but will continue to improve up to 2 months in the bottle. The beer will store well for a year or longer. Chill the beer to 45-55 deg. F. before drinking and decant into a clean beer glass that has the capacity to hold all of the beer in the bottle- Enjoy!

IF YOU HAVE PROBLEMS OR QUESTIONS, PLEASE CALL 330-633-7223

Christmas/Winter Spiced Specialty Beer

History: Throughout history, beer of a somewhat higher alcohol content and richness has been enjoyed during the winter holidays, when old friends get together to enjoy the season. Many breweries produce unique seasonal offerings that may be darker, stronger, spiced, or otherwise more characterful than their normal beers. Spiced versions are an American or Belgian tradition, since English or German breweries traditionally do not use spices in their beer.

Ingredients: Generally ales, although some dark strong lagers exist. Spices are required, and often include those evocative of the Christmas season (e.g., allspice, nutmeg, cinnamon, cloves, ginger) but any combination is possible and creativity is encouraged.