

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

**GG27**  
G&G German Altbier

**Ingredients**

**Malt Syrup #1**  
**Malt Syrup #2**  
**Specialty Grains #3**  
**Bittering Hops #4**  
**Flavor Hops #5**  
**Priming Sugar #6**  
**Irish Moss**  
**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- 1.75  
Anticipated SG 1.054  
Anticipated color SRM- 13  
Anticipated IBU- 40  
Boil time- 45 minutes

**Process Specifics**

Grain steeping temperature- 150-160 deg f.  
Recommended Yeast strain- Wyeast 1007  
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

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

2) Pour approximately 2 gallon dechlorinated water (no more) into your boiling kettle. Bring water to 150-160 degrees F. Place specialty grains (# 3) 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 flavor, color and aroma extraction. After 20 minutes remove the socks and bring water to a boil.

3) Turn off heat. Add all malt syrup (#1 and #2) and bittering hops (#4). Stir well so that ingredients do not stick to the bottom of kettle. Hops may be put directly into kettle, straining bag not required.

4) Bring this mixture called 'wort' back up 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.

At 15 minutes before the end of the 45 minute boil, add flavor hops (#5) and Whirlfloc tablet into the boiling wort.

5) After 45 minutes of boiling, 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.

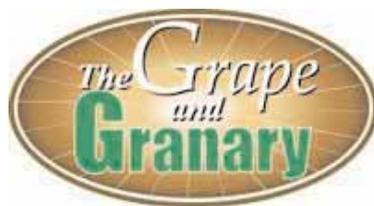
Pour or siphon wort from boiling kettle to primary fermenter (attempt to leave most of the hop residue and any proteins behind). Add enough cold water (refrigerated with no chlorine) to the wort and bring the volume up to 5 gallons.

6) Check temperature of wort and obtain 60-75 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 popped and 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 stops bubbling (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 (#6) 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**

### **German Altbier**

A well balanced, bitter yet malty, clean, smooth, well-attenuated amber-colored German ale.

**History:** The traditional style of beer from Düsseldorf. "Alt" refers to the "old" style of brewing (i.e., making top-fermented ales) that was common before lager brewing became popular. Predates the isolation of bottom-fermenting yeast strains, though it approximates many characteristics of lager beers. The best examples can be found in brewpubs in the Altstadt ("old town") section of Düsseldorf.

**Ingredients:** Grists vary, but usually consist of German base malts (usually Pils, sometimes Munich) with small amounts of crystal, chocolate, and/or black malts used to adjust color. Occasionally will include some wheat. Spalt hops are traditional, but other noble hops can also be used.