



MRBEER[®]



Phil-Hop-Sophy

What You Get

- 1 Can of Long Play IPA Brewing Extract (HME)
 - 3 Packets of Dry Brewing Yeast (1 Under the Lid of the Brewing Extract)
 - 3 Packets of BrewMax LME Pale
 - 1 Packet Carapils Malt
 - 1 Packet Nugget Hops
 - 2 Packets Amarillo Pellet Hops
 - 1 Packet Cascade Pellet Hops (1oz packet)
 - 2 Packets of Centennial Pellet Hops (1oz packets)
 - 1 Packet of US-05 Yeast
 - 3 Muslin Hop Sacks
 - 1 Packet of No-Rinse Cleanser
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STEP 1: Sanitizing

Cleaning is one of the most important steps in brewing. It kills microscopic bacteria, wild yeast, and molds that may cause off-flavors in your beer. **Make certain to clean all equipment that comes in contact with your beer by following the directions below:**

1. Fill clean keg with warm water to line mark 1 on the back, then add ½ pack (about 1 tablespoon) of No-Rinse Cleanser and stir until dissolved. Once dissolved, the solution is ready to use. Save the remaining ½ of No-Rinse Cleanser because you will need it for bottling.
2. Screw-on the lid and swirl the keg so that the cleaning solution makes contact with the entire interior of the keg, including the underside of the lid. Note that the ventilation notches under the lid may leak solution. Allow to sit for at least 2 minutes and swirl again.
3. To clean the spigot, open it fully and allow the liquid to flow for 5 seconds and then close.





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4. Pour the rest of the solution from the keg into a large bowl. Place your spoon/whisk, can opener and measuring cup into the bowl to keep them cleaned throughout the brewing process. Leave them immersed for at least 2 minutes in cleaning solution prior to using.

5. After all, surfaces have been thoroughly cleaned, do not rinse or dry the keg or utensils. Return lid to the top of the keg, proceed immediately to brewing.

STEP 2: BREWING

Brewing beer is the process of combining a starch source (in this case, a malt brewing extract) with yeast. Once combined, the yeast eats the sugars in the malt, producing alcohol and carbon dioxide (CO₂). This process is called fermentation.

1. Remove the yeast packet from under the lid of the can of Brewing Extract, then place the unopened cans and BrewMax LME in hot tap water.
2. Add the Carapils and Pilsen grains to a Muslin Hop Sacks tying it closed.
3. Using a measuring cup, pour 4 cups of water into your clean 3-quart or larger pot (Use just enough water to cover the grains). Bring your pot of water up to above 155 degrees F.
4. Add the grain sack to the hot water and steep for 30 minutes between 155-165 degrees.
5. After 30 minutes, carefully lift the grain sack out of the pot and place into a strainer/colander. Rinse the sack over the pot with 1 cup of hot water. Let drain then discard.
6. Place the Nugget pellet hops into a hop sack tying it closed, then trim away excess material.
7. Bring the grain water to a low rolling boil, add in hop sack, and let simmer at a low boil for 10 minutes, then remove from heat.
8. While this is boiling (step 7), place the contents of 1 packet Centennial and 1/2 packet of Cascade & Amarillo into a hop sack and trim away excess material. (For the remaining 1/2 of packets store in a Ziplock bag in the freezer. You want as little air as possible in the bag. You will use the remaining packet during dry-hopping.)
9. After the 10-minute Nugget boil has passed (step 7), add the remaining hops (step 8) and simmer at a low boil for another 5 minutes. While this is boiling, place the rest of the hops in an airtight container and put in the freezer until it's time for dry-hopping.
10. After the 5-minute hop boil has passed, remove the pot from heat.
11. Open the can of Brewing Extract and LME and pour the contents into the hot mixture in your pot. Stir until thoroughly mixed. This mixture of unfermented beer is called wort.





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12. Fill your fermenter with cold tap water to the mark 1 on the back. If using any other fermenter this would be approximately 1 gallon of water.

13. Pour the wort, including the hop sacks, into your fermenter, and then bring the volume of the fermenter to mark 2 by adding more cold water. Leave the hop sacks in the wort for the duration of fermentation. (If you have a different fermenter top it off with cold water to the 8.5-liter mark).

14. Stir your wort mixture vigorously with your sanitized spoon or whisk.

15. Sprinkle the US-05 yeast into the keg, and screw on the lid. Do not stir.

16. Put your fermenter in a location with a consistent temperature between 70° and 76° F (21°-24° C), and out of direct sunlight. Ferment for 21 days.

STEP 3: Dry-Hopping

Dry hopping is the process of adding hops to a beer which will impart more hop flavor and aroma in your beer.

1. At day 16 of fermentation add all the remaining hops into your fermenter. Careful remove the lid from your fermenter and dump the pellet hops in. Quickly close the lid.

STEP 4: Bottling & Carbonating

After 21 days, taste a small sample to determine if the beer is fully fermented and ready to bottle. If it tastes like flat beer, it is ready. If it's sweet, then it's not ready. Let it ferment for 3 more days (24 total). At this point, it is time to bottle. *Do not let it sit in the fermenter for longer than 21 days total.*

1. When your beer is ready to bottle, fill a 1-gallon container with warm water, then add the remaining ½ pack of the No-Rinse Cleanser and stir until dissolved. Once dissolved, it is ready to use.

2. Distribute the cleaning solution equally among the bottles. Screw-on caps (or cover with a metal cap if using glass bottles) and shake bottles vigorously. Allow to sit 10 minutes, then shake the bottles again. Remove caps and empty all cleaning solution into a large bowl. Use this solution to clean any other equipment you may be used for bottling. Do not rinse.

3. Add 2 [Carbonation Drops](#) to each 740-mL bottle. For 1-liter bottles, add 2 ½ drops; for ½-liter bottles add 1 drop. Alternatively, you can add table sugar using [this table as a guide](#).





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4. Holding the bottle at an angle, fill each bottle to about 2 inches from the bottle's top.
 5. Place caps on bottles, hand tighten, and gently turn the bottle over to check the bottle's seal. It is not necessary to shake them.
 6. Store the bottles upright and out of direct sunlight in a location with a consistent temperature between 70°-76°F or 21°-24°C. Allow sitting for a minimum of 14 days. If the temperature is cooler than suggested it may take an additional week to reach full carbonation.
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Tip from our Brewmasters

After the primary carbonation has taken place your beer is ready to drink. We recommend putting 1 bottle in the refrigerator at first for 48 hrs. After 48hrs. give it a try and if it is up to your liking put the rest of your beer in the fridge. If it does not taste quite right, leave the bottles out at room temp for another week or so. Keep following this method until your brew tastes just how you like it.

This process is called conditioning and during this time the yeast left in your beer can help clean up any off-flavors. Almost everything gets a little better with time and so will your beer.

