

REBEL RYE PORTER

Official NORTHERN BREWER Instructional Document

From London to Kentucky and all points in between, porters have been a perennial favorite of beer lovers for most of modern history. For those that love the taste of rye, this beer takes it to a whole new level. Like our popular Bourbon Barrel Porter kit, this Brown Porter calls for the addition of American oak cubes and whiskey to secondary. But here the porter is laced on a healthy dose of rye malt, and we recommend rye whiskey instead of bourbon. The result is intense rye spiciness jutting out over subdued roast character and a dense malt base.

O.G: 1.062 READY: 2 MONTHS

1-2 weeks primary, 5 weeks secondary,
1 - 2 weeks bottle conditioning

KIT INVENTORY:

MAILLARD MALTS™ SPECIALTY GRAIN

- 0.75 lbs English Medium Crystal
- 0.5 lbs English Black Malt

MAILLARD MALTS™ EXTRACTS & OTHER FERMENTABLES

- 2 lbs Amber dried malt extract
- 6 lbs Rye malt extract syrup

HOPTIMUS REX™ PREMIUM HOPS & OTHER FLAVORINGS

- 1 oz Nugget (60 min)
- 1 oz US Fuggle (30 min)
- 1.5 oz Cascade (5 min)

SPECIAL INGREDIENTS

- 2 oz US Medium Plus Oak Cubes (add to secondary)
- 16 oz rye whiskey (not included) (add to secondary)

YEAST

- **DRY YEAST (DEFAULT):** Safale S-04. Optimum temperature: 64-75°F
- **LIQUID YEAST OPTION:** Wyeast #1028 London Ale Yeast. Optimum temperature: 60-72°F

PRIMING SUGAR

- 5 oz Priming Sugar (save for Bottling Day)

BEFORE YOU BEGIN ...

MINIMUM REQUIREMENTS

- Homebrewing starter kit for brewing 5 gallon batches
- Boiling kettle of at least 3.5 gallons capacity
- A 5 gallon carboy, with bung and airlock, to use as a secondary fermenter - If you do not have a secondary fermenter you may skip the secondary fermentation and add an additional week to primary fermentation before bottling
- Approximately two cases of either 12 ounce or 22 ounce pry-off style beer bottles

UNPACK THE KIT

- Refrigerate the yeast upon arrival
- Locate the Kit Inventory (above) - this is the recipe for your beer, so keep it handy
- Doublecheck the box contents vs. the Kit Inventory
- Contact us immediately if you have any questions or concerns!

PROCEDURE

A FEW DAYS BEFORE BREWING DAY

1. Remove the liquid Wyeast pack from the refrigerator, and “smack” as shown on the back of the yeast package. Leave it in a warm place (70-80° F) to incubate until the pack begins to inflate. Allow at least 3 hours for inflation; some packs may take up to several days to show inflation. Do not brew with inactive yeast – we can replace the yeast, but not a batch that fails to ferment properly. If you are using dry yeast, no action is needed.

ON BREWING DAY

2. Collect and heat 2.5 gallons of water.

3. For mail-order customers grains for extract kits come crushed by default, but if you requested uncrushed grains, crush them now. Pour crushed grain into supplied mesh bag and tie the open end in a knot. Steep for 20 minutes or until water reaches 170°F. Remove bag and discard.

4. Bring to a boil and add 2 lb Amber DME and 6 lbs Rye Malt Syrup. Remove the kettle from the burner and stir in the Amber malt DME and Rye Malt Syrup.

5. Return wort to boil, The mixture is now called “wort”, the brewer’s term for unfermented beer.

- Add 1 oz Nugget hops, and boil for 60 minutes.

- Add 1 oz US Fuggle hops 30 minutes before the end of the boil.

- Add 1.5 oz Cascade hops 5 minutes before the end of the boil.

6. Cool the wort. When the 60-minute boil is finished, cool the wort to approximately 100° F as rapidly as possible. Use a wort chiller, or put the kettle in an ice bath in your sink.

7. Sanitize fermenting equipment and yeast pack. While the wort cools, sanitize the fermenting equipment - fermenter, lid or stopper, fermentation lock, funnel, etc - along with the yeast pack and a pair of scissors.

8. Fill primary fermenter with 2 gallons of cold water, then pour in the cooled wort. Leave any thick sludge in the bottom of the kettle.

9. Add more cold water as needed to bring the volume to 5 gallons.

10. Aerate the wort. Seal the fermenter and rock back and forth to splash for a few minutes, or use an aeration system and diffusion stone.

11. **OPTIONAL:** if you have our Mad Brewer Upgrade or Gravity Testing kits, measure specific gravity of the wort with a hydrometer and record.

12. Add yeast once the temperature of the wort is 78°F or lower (not warm to the touch). Use the sanitized scissors to cut off a corner of the yeast pack, and carefully pour the yeast into the primary fermenter.

13. Seal the fermenter. Add approximately 1 tablespoon of water to the sanitized fermentation lock. Insert the lock into rubber stopper or lid, and seal the fermenter.

14. Move the fermenter to a warm, dark, quiet spot until fermentation begins.

BEYOND BREWING DAY—WEEKS 1–2

15. Active fermentation begins. Within approximately 48 hours of Brewing Day, active fermentation will begin - there will be a cap of foam on the surface of the beer, and you may see bubbles come through the fermentation lock.

16. Active fermentation ends. Approximately 1-2 weeks after brewing day, active fermentation will end: the cap of foam falls back into the new beer, bubbling in the fermentation lock slows down or stops.

17. Transfer beer to secondary fermenter. Sanitize siphoning equipment and an airlock and carboy bung or stopper. Siphon the beer from the primary fermenter into the secondary.

BEYOND BREWING DAY— SECONDARY FERMENTATION

18. Secondary fermentation. Allow the beer to condition in the secondary fermenter for 2 - 3 weeks before proceeding with the next step. Timing now is somewhat flexible.

19. Add the oak cubes. Soak 2 oz of US Medium Plus Oak Cubes in 16 oz of rye whiskey for 24 - 48 hours. Then add the oak cubes and whiskey to the secondary fermenter and wait an additional 1 - 2 weeks before bottling.

BOTTLING DAY— 6–7 WEEKS AFTER BREWING DAY

20. Sanitize siphoning and bottling equipment.

21. Mix a priming solution (a measured amount of sugar dissolved in water to carbonate the bottled beer) of $\frac{2}{3}$ cup priming sugar in 16 oz water. Bring the solution to a boil and pour into the bottling bucket.

22. Siphon beer into bottling bucket and mix with priming solution. Stir gently to mix - don't splash.

23. Fill and cap bottles.

1–2 WEEKS AFTER BOTTLING DAY

24. Condition bottles at room temperature for 1 - 2 weeks. After this point, the bottles can be stored cool or cold.

25. Serving. Pour into a clean glass, being careful to leave the layer of sediment at the bottom of the bottle. Cheers!