The Blarney Stout (AG) 23 L

Created: Tuesday April 8th 2025

League of Brewers

Method: **All Grain** Style: **Irish Stout** Boil Time: **90 min** Batch Size: **23 liters** (fermentor volume) Pre Boil Size: **29.15 liters**

Post Boil Size: **25 liters** Pre Boil Gravity: **1.036** (recipe based estimate) Post Boil Gravity: **1.042** (recipe based estimate)

Efficiency: **75%** (brew house) Source: **LoB kits** Calories: **192 calories** (Per 500ml) Carbs: **16.4 g** (Per 500ml)

Original Gravity:	Final Gravity:	ABV (standard):	IBU (tinseth):	SRM (morey):	Mash pH	Cost $
1.042	**1.007**	**4.5%**	**30.2**	**37.4**	**5.4**	**n/a**

Fermentables

Amount	Fermentable	Cost	PPG	°L	Bill %
3.10 kg	Bairds - Maris Otter Finest Ale Malt		37.7	2.5	71.6%
0.63 kg	Gladfield - Chit Malt		27	1.52	14.5%
0.60 kg	Gladfield - NZ - Gladfield - Roasted Barley		33	488	13.9%

4.33 kg / $ 0.00

Hops

Amount	Variety	Cost	Type	AA	Use	Time	IBU	Bill %
50 g	Fuggles		Pellet	4.5	Boil	90 min	30.15	100%

50 g / $ 0.00

Other Ingredients

Amount	Name	Cost	Type	Use	Time
5 g	Calcium Chloride (dihydrate)		Water Agt	Mash	60 hr.

Yeast

Mangrove Jack - New World Strong Ale M42

Amount: 1 Each **Cost:** **Attenuation (custom):** 80% **Flocculation:** High **Optimum Temp:** 16 - 22 °C **Starter:** No

Fermentation Temp: 20 °C **Pitch Rate:** 0.5 *(M cells / ml / ° P)* 120 B cells required

Priming

Method: co2 Amount: 0.82 bar Temp: 4 °C CO_2 Level: 2.5 Volumes

Target Water Profile Balanced Profile

Ca^{+2} 80 **Mg^{+2}** 5 **Na^{+}** 25 **Cl^{-}** 75 **SO_4^{-2}** 80 **HCO_3^{-}** 100

Mash Guidelines

Amount	Description	Type	Start Temp	Target Temp	Time
11.7 L	Starch conversion	Temperature	65 °C	65 °C	60 min
	Mash out. This is optinal for this recipe. Being a dry beer, where maintaining a less feremnatble profile isn't a concern, this isn't really necessary unless your system is prone to lautering issues.	Temperature	65 °C	77 °C	10 min
21.8 L		Sparge	--	78 °C	--

Starting Mash Thickness: 2.7 L/kg
Starting Grain Temp: 20 °C

Quick Water Requirements

Water	Liters
Strike water volume at mash thickness of 2.7 L/kg	11.7
Mash volume with grains	14.5
Grain absorption losses	-4.3
Remaining sparge water volume	21.8
Pre boil volume	29.2
Boil off losses	-3.8
Hops absorption losses (first wort, boil, aroma)	-0.4
Post boil Volume	25
Kettle losses	-2
Going into fermentor	23
Total:	**33.5**

Water	Liters
Equipment Profile Used:	G30

Notes

The suggested mineral additions for this recipe assume an average NZ water profile and should work well for most NZ water sources. The target water profile in ppm is shown above.

1. This recipe is designed to include mineral additions in the mash. If you do not have scales, 1 flat tsp/4g each of gypsum and calcium chloride will be a close approximation. The mineral additions are also designed to help target a mash pH of ~5.4. Calcium is also essential for stabilising mash enzymes and for yeast health. The mineral additions are also very important for the flavour profile of the beer. If you do not have brewing salts in your home brewery, they are available for purchase on the LoB website and will last a great many brews for a small cost.
2. If you wish (particularly if your system requires excessive sparging, below SG 1.012), add sufficient lactic acid to the sparge water to lower the pH to 5.6 prior to heating (~ 0.5 - 1.0 ml/10l lactic acid depending on water source).
3. We recommend you add kettle finings (whirlflock, Irish Moss) and yeast nutrient 15 min before the end of the boil.
4. Cool the wort to 18 deg C and promptly transfer to a fermenter.
5. We strongly recommend that the yeast be rehydrated in sterile warm water per the manufacturer's instructions. If not, you may lose up to 50% cell viability. Pitch into well aerated wort at 18 deg C and allow to rise to 20 deg C.
6. When the primary ferment begins to slow (3 -5days), raise the fermentation temperature to 22 deg C and hold for 5-7 days or until a stable final gravity is reached. If in doubt, wait a few more days.
7. When ready, rack the beer to a CO2 purged keg and force carbonate to around 2.5 vols CO2.