Brown Ale #13

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **21**
- SRM **14.3**
- Style Northern English Brown Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 15.7 liter(s)
- Total mash volume 21 liter(s)

Steps

• Temp 67 C, Time 60 min

Mash step by step

- Heat up 15.7 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 60 min at 67C
- Sparge using 20 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4.5 kg <i>(85.7%)</i>	81 %	5
Grain	Brown Malt (British Chocolate)	0.35 kg <i>(6.7%)</i>	70 %	180
Grain	Weyermann - Caraamber	0.3 kg <i>(5.7%)</i>	75 %	65
Grain	Briess - Dark Chocolate Malt	0.1 kg <i>(1.9%)</i>	60 %	1150

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Simcoe	45 g	10 min	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP099 - Super High Gravity Ale Yeast	Ale	Slant	200 ml	White Labs