Brown ale

- Gravity 10 BLG
- ABV 4 %
- IBU **18**
- SRM **12**
- Style Northern English Brown Ale

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 65 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.2 liter(s)
- Total mash volume 23 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 77 C, Time 15 min

Mash step by step

- Heat up 17.2 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 15 min at 77C
- Sparge using 20.2 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	5 kg (87.1%)	80 %	7
Grain	Caramel/Crystal Malt - 20L	0.18 kg <i>(3.1%)</i>	75 %	39
Grain	Caraamber	0.18 kg <i>(3.1%)</i>	75 %	59
Grain	Briess - Caramel Malt 90L	0.15 kg <i>(2.6%)</i>	75 %	177
Grain	Biscuit Malt	0.11 kg <i>(1.9%)</i>	79 %	45
Grain	Briess - Black Malt	0.06 kg (1%)	55 %	985
Grain	Briess - Chocolate Malt	0.06 kg <i>(1%)</i>	60 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	16.25 g	60 min	5.2 %
Boil	Golding	16.25 g	60 min	5 %
Boil	Fuggles	11.25 g	15 min	4.5 %

Yeasts

Name Type	Form	Amount	Laboratory
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Wyeast - 1028 London Ale	Ale	Liquid	1.25 ml	Wyeast Labs
LUTIUUTI AIE				