Red ale

- Gravity 12.1 BLG
- ABV ----
- IBU **43**
- SRM **9.2**
- Style Irish Red Ale

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.7 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 18.7 liter(s)
- Total mash volume 24.1 liter(s)

Steps

• Temp 67 C, Time 60 min

Mash step by step

- Heat up 18.7 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 67C
- Sparge using 14.4 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	5 kg <i>(93.5%)</i>	85 %	7
Grain	Roast barley	0.05 kg <i>(0.9%)</i>	%	1300
Grain	Munich Malt	0.3 kg <i>(5.6%)</i>	80 %	18

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Millennium	25 g	60 min	15.5 %
Aroma (end of boil)	Bullion	25 g	5 min	7.75 %
Aroma (end of boil)	Ultra	25 g	0 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale