ale

- Gravity 10.7 BLG
- ABV **4.3** %
- IBU 21
- SRM **6**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 39 liter(s)
- Trub loss 8 %
- Size with trub loss 46 liter(s)
- · Boil time 60 min
- Evaporation rate 11 %/h
- Boil size **56.7 liter(s)**

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 25.8 liter(s)
- Total mash volume 34.4 liter(s)

Steps

• Temp 68 C, Time 60 min

Mash step by step

- Heat up 25.8 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Sparge using 39.5 liter(s) of 76C water or to achieve 56.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) UK	7 kg (81.4%)	78 %	6
Grain	Munich Malt	0.5 kg <i>(5.8%)</i>	80 %	18
Grain	Briess - Carapils Malt	0.5 kg <i>(5.8%)</i>	74 %	3
Grain	Caramel/Crystal Malt - 40L	0.6 kg (7%)	74 %	100

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	22 g	60 min	12 %
Aroma (end of boil)	Citra	22 g	15 min	12 %
Whirlpool	Citra	100 g	0 min	12 %
Dry Hop	Citra	150 g	4 day(s)	12 %
Dry Hop	Citra	100 g	4 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	22 g	Safale

Extras

Type Name Amount Use for Time

Fining	protofloc	5 g	Boil	15 min
Other	nutrient blend	6 g	Boil	15 min