Pale Ale

- Gravity 12.1 BLG
- ABV ----
- IBU **52**
- SRM **6.5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 0 %
- Size with trub loss 20 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 23.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

Steps

- Temp 68 C, Time 70 min
 Temp 72 C, Time 10 min

Mash step by step

- Heat up 12 liter(s) of strike water to 76C
- Add grains
- Keep mash 70 min at 68C
- Keep mash 10 min at 72C
- Sparge using 15.3 liter(s) of 76C water or to achieve 23.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.2 kg <i>(80%)</i>	85 %	7
Grain	Weyermann - Light Munich Malt	0.8 kg <i>(20%)</i>	82 %	14

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Phoenix	30 g	60 min	11 %
Boil	Progress	40 g	10 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	20 g	Safale