Simple Pale Ale

- Gravity 12.4 BLG
- ABV **5** %
- IBU 29
- SRM **12.6**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 6 liter(s) / kg
- Mash size 30 liter(s)
- Total mash volume 35 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 66 C, Time 30 min
 Temp 72 C, Time 20 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 30 liter(s) of strike water to 54.7C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 30 min at 66C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 0.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Munich Malt	4 kg (80%)	78 %	22
Grain	Viking Pale Ale malt	1 kg (20%)	80 %	70

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade PL	50 g	20 min	5.2 %
Boil	Styrian Golding	50 g	20 min	3.6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Fermentis