Pale Ale

- · Gravity 15 BLG
- ABV ----
- IBU **30**
- SRM **4.5**
- Style Old 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 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp 64 C, Time 30 min
 Temp 72 C, Time 50 min
- Temp 80 C, Time 10 min

Mash step by step

- Heat up 18 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 30 min at 64C
- Keep mash 50 min at 72C
- Keep mash 10 min at 80C
- Sparge using 13.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (66.7%)	80 %	5
Grain	Viking Pilsner malt	2 kg (33.3%)	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %
Boil	Sybilla	80 g	10 min	3.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M36 Liberty Bell Yeast	Ale	Dry	10 g	Mangrove Jack's