pale

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **30**
- SRM 4.2

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 12.7 liter(s)

Mash information

- Mash efficiency 68 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 7.8 liter(s)
- Total mash volume 10.4 liter(s)

Steps

- Temp 64 C, Time 60 min
 Temp 70 C, Time 10 min

Mash step by step

- Heat up 7.8 liter(s) of strike water to 71.3C
- Add grains
- · Keep mash 60 min at 64C
- Keep mash 10 min at 70C
- Sparge using 7.5 liter(s) of 76C water or to achieve 12.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.6 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Puławski	15 g	60 min	6.9 %
Aroma (end of boil)	Cascade	10 g	15 min	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-05	Ale	Dry	11 g	