Bitterek

- · Gravity 10 BLG
- ABV 4 %
- IBU **30**
- SRM **4.9**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 11.7 liter(s)
- Total mash volume 15.6 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 76 C, Time 10 min

Mash step by step

- Heat up 11.7 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 10 min at 76C
- Sparge using 18.7 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg <i>(89.7%)</i>	80 %	5
Grain	viking cookie	0.4 kg <i>(10.3%)</i>	%	50

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	25 g	60 min	5.1 %
Boil	Fuggles	25 g	30 min	4.5 %
Boil	East Kent Goldings	25 g	10 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	Danstar