Bitter

- Gravity 10.2 BLG
- ABV **4.1** %
- IBU **34**
- SRM **11.9**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 27.5 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 11.3 liter(s)
- Total mash volume 15.8 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 11.3 liter(s) of strike water to 76.4C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 10 min at 78C
- Sparge using 24.9 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.8 kg <i>(84.4%)</i>	80 %	5
Grain	Caramel/Crystal Malt - 120L	0.4 kg (8.9%)	72 %	236
Grain	Special B Malt	0.2 kg <i>(4.4%)</i>	65.2 %	350
Grain	Weyermann - Acidulated Malt	0.1 kg <i>(2.2%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	35 g	60 min	5.6 %
Boil	Fuggles	35 g	30 min	5.6 %
Boil	Fuggles	10 g	5 min	5.6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Slant	100 ml	Safale

Extras

Type	Name	Amount	Use for	Time
Type		/ o	050.0.	

Fining	mech	5 g	Boil	15 min