sour ale

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU **30**
- SRM **3.7**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.2 liter(s)
- Total mash volume 22.1 liter(s)

Steps

- Temp **62 C**, Time **30 min** Temp **72 C**, Time **45 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 17.2 liter(s) of strike water to 68C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 45 min at 72C
- Keep mash 10 min at 78C
- Sparge using 15.5 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC	
Grain	Viking Pale Ale malt	4 kg (81.6%)	80 %	5	
Grain	Rice, Flaked	0.4 kg (8.2%)	70 %	2	
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Grain	Viking Wheat Malt	0.5 kg <i>(10.2%)</i>	83 %	5	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	10 g	60 min	13.2 %
Aroma (end of boil)	Simcoe	10 g	15 min	13.2 %
Aroma (end of boil)	Simcoe	10 g	10 min	13.2 %
Aroma (end of boil)	Simcoe	20 g	5 min	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Lactobacillus Plantarum	Ale	Dry	5 g	Sanprobi ibs
Wyeast - American Ale	Ale	Liquid	100 ml	Wyeast Labs