Magister

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **41**
- SRM **3.9**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 25.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 19.3 liter(s)
- Total mash volume 24.8 liter(s)

Steps

• Temp 68 C, Time 60 min

Mash step by step

- Heat up 19.3 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 68C
- Sparge using 16.6 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	ЕВС
Grain	Viking Pale Ale malt	5.5 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	35 g	60 min	11 %
Whirlpool	Cascade	50 g	15 min	6 %
Dry Hop	Amarillo	100 g	3 day(s)	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-05	Ale	Slant	100 ml	Fermentis