Apa

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **63**
- SRM **4.9**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s)
- Total mash volume 21.2 liter(s)

Steps

- Temp 66 C, Time 60 minTemp 75 C, Time 5 min

Mash step by step

- Heat up 15.9 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 5 min at 75C
- Sparge using 19.8 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg <i>(75.5%)</i>	80 %	5
Grain	Pszeniczny	1 kg <i>(18.9%)</i>	85 %	4
Grain	Caraamber	0.3 kg <i>(5.7%)</i>	75 %	59

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	60 min	12.8 %
Boil	Mosaic	15 g	30 min	12.5 %
Boil	Amarillo	15 g	30 min	7.9 %
Boil	Amarillo	15 g	10 min	9.5 %
Boil	Citra	15 g	0 min	12.3 %
Dry Hop	Citra	15 g	5 day(s)	12.3 %

Yeasts

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

Extras

Туре	Name	Amount	Use for	Time
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Ethalia a	Lutala Maran	1 3	l n - 11	10 main
Fining	l Irish Moss	130	Boil	I 10 MIN
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