PPA Izabella single hop

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **21**
- SRM **4.2**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 39 liter(s)
- Trub loss 5 %
- Size with trub loss 42.9 liter(s)
- Boil time 60 min
- Evaporation rate 7 %/h
- Boil size 48 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 35 liter(s)
- Total mash volume 45 liter(s)

Steps

- Temp 65 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp **76 C**, Time **0 min**

Mash step by step

- Heat up 35 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 40 min at 65C
- Keep mash 20 min at 72C
- Keep mash 0 min at 76C
- Sparge using 23 liter(s) of 76C water or to achieve 48 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	10 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Izabella	40 g	60 min	5.8 %
Aroma (end of boil)	Izabella	60 g	10 min	5.8 %
Dry Hop	Izabella	200 g	3 day(s)	5.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
US05	Ale	Dry	22 g	