### **LOPATA**

- Gravity 13.5 BLG
- ABV ----
- IBU **45**
- SRM **6.2**
- Style American IPA

## **Batch size**

- Expected quantity of finished beer 22 liter(s)
- Trub loss 10 %
- Size with trub loss 24.2 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 27.8 liter(s)

### **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.2 liter(s)
- Total mash volume 21.6 liter(s)

# **Steps**

- Temp **63 C**, Time **40 min** Temp **72 C**, Time **30 min**
- Temp 78 C, Time 10 min

# Mash step by step

- Heat up 16.2 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 40 min at 63C
- Keep mash 30 min at 72C
- Keep mash 10 min at 78C
- Sparge using 17 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (92.6%)	79 %	6
Grain	Carared	0.2 kg <i>(3.7%)</i>	75 %	39
Grain	Briess - 2 Row Carapils Malt	0.2 kg <i>(3.7%)</i>	75 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	40 g	60 min	9.5 %
Boil	Marynka	10 g	20 min	9.5 %
Aroma (end of boil)	Lublin (Lubelski)	20 g	5 min	3.6 %
Whirlpool	Lublin (Lubelski)	30 g	0 min	3.6 %

# **Yeasts**

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M07 British Ale	Ale	Slant	200 ml	Mangrove Jack's

# **Extras**

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	15 g	Boil	15 min