## Kalesonowa Kolońska

- · Gravity 12 BLG
- ABV ----
- IBU **22**
- SRM 2.8
- Style Northern German Altbier

#### **Batch size**

- Expected quantity of finished beer 23 liter(s)
- Trub loss 10 %
- Size with trub loss 25.3 liter(s)
- · Boil time 70 min
- Evaporation rate 15 %/h
- Boil size 29.7 liter(s)

# **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 5 liter(s) / kg
- Mash size 24.5 liter(s)
- Total mash volume 29.4 liter(s)

## **Steps**

- Temp 52 C, Time 10 min
  Temp 62 C, Time 45 min
  Temp 72 C, Time 15 min
- Temp **78 C**, Time **5 min**

# Mash step by step

- Heat up 24.5 liter(s) of strike water to 55.2C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 45 min at 62C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 10.1 liter(s) of 76C water or to achieve 29.7 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	4.3 kg (87.8%)	80.5 %	2
Grain	Weyermann pszeniczny jasny	0.5 kg <i>(10.2%)</i>	80 %	6
Grain	Weyermann - Acidulated Malt	0.1 kg (2%)	80 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	35 g	60 min	5 %
Boil	Sybilla	15 g	20 min	5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
safale s33	Ale	Dry	9 g	safale

### **Extras**

e Name	Amount	Use for	Time
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Final and	IRISH MOSS	l r	Dail	10 min
Fining	I IKISH MUSS	150	Boil	I 10 MIN
1		1 - 3		