Kolonia?

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **32**
- SRM 2.8
- Style Kölsch

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.8 liter(s)
- Total mash volume 22.4 liter(s)

Steps

- Temp 52 C, Time 20 min
 Temp 68 C, Time 90 min

Mash step by step

- Heat up 16.8 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 20 min at 52C
- Keep mash 90 min at 68C
- Sparge using 17.8 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	5 kg (89.3%)	80.5 %	2
Grain	Barley, Flaked	0.4 kg (7.1%)	70 %	4
Grain	Wheat, Flaked	0.2 kg <i>(3.6%)</i>	77 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	opal DE 2016	50 g	40 min	7.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
s04	Ale	Slant	100 ml	