

Kolonia

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **27**
- SRM **3.6**
- 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 **15.9 liter(s)**
- Total mash volume **21.2 liter(s)**

Steps

- Temp **67 C**, Time **60 min**

Mash step by step

- Heat up **15.9 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4 kg (75.5%)	82 %	4
Grain	Viking Wheat Malt	1.3 kg (24.5%)	83 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	30 g	60 min	7 %
Boil	Hallertau Tradition	10 g	10 min	5 %
Boil	Perle	15 g	15 min	7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale k-97	Ale	Dry	11.5 g	Fermentis