21. Kölsch

- Gravity 12.7 BLG
- ABV ---
- IBU **39**
- SRM **7.5**
- Style Kölsch

Batch size

- Expected quantity of finished beer 30 liter(s)
- Trub loss 0 %
- Size with trub loss 30 liter(s)
- · Boil time 70 min
- Evaporation rate 10 %/h
- Boil size **35.67 liter(s)**

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.83 liter(s)
- Total mash volume 26.44 liter(s)

Steps

- Temp **54 C**, Time **10 min** Temp **63 C**, Time **50 min** Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 19.83 liter(s) of strike water to 59.7C
- Add grains
- Keep mash 10 min at 54C
- Keep mash 50 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 76C
- Sparge using 22.5 liter(s) of 76C water or to achieve 35.67 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilsner (Weyermann)	3.3 kg	82.23 %	7
Grain	Castle Malting Pilsen 2RS	2 kg	81 %	8
Grain	BestMälz Caramel Pils	0.5 kg	78 %	12
Grain	Munich Malt	0.41 kg	80 %	46
Grain	Wheat Malt, Ger	0.3 kg	84 %	9
Grain	Acidulated (Weyermann)	0.1 kg	65.2 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	German Tradition	25 g	70 min	6 %
Boil	Columbus (Tomahawk)	20 g	40 min	14 %
Boil	Perle	20 g	10 min	8 %
Boil	Perle	50 g	0 min	8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
German Ale	Ale	Liquid	124 ml	Wyeast Labs

Extras

Туре	Name	Amount	Use for	Time
Other	Pożywka Wyeast	3 g	Boil	15 min