5B. Kölsch

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **26**
- SRM 3.7
- Style Kölsch

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 3 %
- Size with trub loss 15.4 liter(s)
- · Boil time 90 min
- Evaporation rate 7 %/h
- Boil size 17.9 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 4.7 liter(s) / kg
- Mash size 15.1 liter(s)
- Total mash volume 18.4 liter(s)

Steps

- Temp **53 C**, Time **10 min** Temp **63 C**, Time **45 min** Temp **73 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 15.1 liter(s) of strike water to 56.5C
- Add grains
- Keep mash 10 min at 53C
- Keep mash 45 min at 63C
- Keep mash 15 min at 73C
- Keep mash 5 min at 76C
- Sparge using 6 liter(s) of 76C water or to achieve 17.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.9 kg <i>(90%)</i>	81 %	4
Grain	Strzegom Wiedeński	0.323 kg <i>(10%)</i>	79 %	10

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	20 g	60 min	6.2 %
Aroma (end of boil)	Hallertau Spalt Select	25 g	15 min	3.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Lutra OYL-071	Ale	Dry	7.89 g	Omega

Extras

Туре	Name	Amount	Use for	Time
Water Agent	CaSO4	2 g	Mash	60 min
Water Agent	CaCl2	2 g	Mash	60 min

Notes

20 C 5 - 7 dni
18 C 1 dzień
2 C 14 dni
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