Kolsch #1

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **34**
- SRM 2.8
- Style Kölsch

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 25.7 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.3 liter(s) / kg Mash size 15.7 liter(s)
- Total mash volume 20.4 liter(s)

Steps

- Temp **57 C**, Time **10 min** Temp **63 C**, Time **40 min**
- Temp 72 C, Time 20 min

Mash step by step

- Heat up 15.7 liter(s) of strike water to 62.6C
- Add grains
- Keep mash 10 min at 57C
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Sparge using 14.8 liter(s) of 76C water or to achieve 25.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilsen Malt	3.75 kg <i>(78.9%)</i>	80.5 %	2
Grain	Pszeniczny	1 kg (21.1%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	53 min	13.5 %
Boil	Hallertau	20 g	14 min	4.5 %
Boil	Spalt	20 g	10 min	5.5 %
Boil	Hallertau	20 g	5 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM42 Stare Nadreńskie	Ale	Liquid	1200 ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Water Agent	gips	4 g	Mash	60 min

