kolsch 2.0 gotowanie

- Gravity 17.7 BLG
- ABV 7.6 %
- IBU **21**
- SRM **4.5**
- Style Kölsch

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 28 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 63 C, Time 45 min
 Temp 72 C, Time 25 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 21 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 45 min at 63C
- Keep mash 25 min at 72C
- Keep mash 10 min at 78C
- Sparge using 12.5 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg <i>(71.4%)</i>	81 %	3.5
Grain	Pszeniczny	1 kg <i>(14.3%)</i>	85 %	5
Grain	Bestmalz Carmel Pils	1 kg <i>(14.3%)</i>	75 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	14.29 g	60 min	13.5 %
Boil	Hersbrucker	35.71 g	15 min	3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - Kolsch	Ale	Liquid	178.57 ml	Wyeast Labs