Kölsch v.2

- Gravity 13.1 BLG
- ABV ----
- IBU 24
- SRM 3.8
- Style Kölsch

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 4 %
- Size with trub loss 20.8 liter(s)
- · Boil time 60 min
- Evaporation rate 4 %/h
- Boil size 22.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 2.7 liter(s) / kg
- Mash size 10.8 liter(s)
- Total mash volume 14.8 liter(s)

Steps

- Temp 45 C, Time 1 min
 Temp 52 C, Time 10 min
- Temp 64 C, Time 45 min
- Temp 72 C, Time 15 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 10.8 liter(s) of strike water to 49.6C
- Add grains
- Keep mash 1 min at 45C
- Keep mash 10 min at 52C
- Keep mash 45 min at 64C
- Keep mash 15 min at 72C
- Keep mash 1 min at 78C
- Sparge using 15.9 liter(s) of 76C water or to achieve 22.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3.5 kg <i>(82.4%)</i>	81 %	4
Grain	Pszeniczny	0.5 kg <i>(11.8%)</i>	85 %	4
Sugar	cukier	0.25 kg <i>(5.9%)</i>	%	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	60 min	10.5 %
Boil	Saaz (Czech Republic)	20 g	30 min	4.5 %
Boil	Hallertau Spalt Select	20 g	10 min	2.8 %
Boil	Saaz (Czech Republic)	10 g	5 min	4.5 %

Yeasts

Name Type	Form	Amount	Laboratory
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