

Kolońskie

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **33**
- SRM **3.8**
- Style **Kölsch**

Batch size

- Expected quantity of finished beer **9 liter(s)**
- Trub loss **5 %**
- Size with trub loss **9.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **11.3 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **7 liter(s)**
- Total mash volume **9.3 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **7 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **6.6 liter(s)** of **76C** water or to achieve **11.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.1 kg (90.1%)	80 %	4
Grain	Weyermann pszeniczny jasny	0.15 kg (6.4%)	80 %	6
Grain	Weyermann - Acidulated Malt	0.08 kg (3.4%)	--- %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertauer Magnum	8 g	60 min	11.7 %
Boil	Spalt Select	20 g	15 min	3.2 %
Boil	Spalt Select	5 g	5 min	3.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM42 Stare nadreńskie	Ale	Slant	100 ml	---

Extras

Type	Name	Amount	Use for	Time
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Other	Łuska ryżowa	100 g	Mash	10 min
Fining	Mech Irlandzki	2 g	Boil	10 min