

## #7 Woda Kolońska

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **26**
- SRM **3.5**
- Style **Kölsch**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **0 %**
- Size with trub loss **10 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.1 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6.6 liter(s)**
- Total mash volume **8.8 liter(s)**

### Steps

- 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 **6.6 liter(s)** of strike water to **57.3C**
- Add grains
- 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 **7.7 liter(s)** of **76C** water or to achieve **12.1 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg (90.9%)	80 %	4
Grain	Pszeniczny	0.2 kg (9.1%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Blanc	8 g	65 min	11 %
Boil	Tettnang	8 g	15 min	4 %
Whirlpool	Tettnang	8 g	10 min	4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	---

### Extras

Type	Name	Amount	Use for	Time
Fining	mech irlandzki	5 g	Boil	10 min

## Notes

- Mech rehydratyzować kilka godzin w ciepłej wodzie.  
Leżakować (lagerować) w niskiej temperaturze miesiąc najmniej.  
*Jan 6, 2018, 10:44 PM*