

## #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*