

## witold

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **13**
- SRM **3.7**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.6 liter(s) / kg**
- Mash size **21.6 liter(s)**
- Total mash volume **27.6 liter(s)**

### Steps

- Temp **65 C**, Time **70 min**
- Temp **71 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **21.6 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **70 min** at **65C**
- Keep mash **30 min** at **71C**
- Keep mash **10 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount        | Yield | EBC |
|-------|-----------------------------|---------------|-------|-----|
| Grain | Weyermann - Pale Wheat Malt | 2 kg (33.3%)  | 85 %  | 5   |
| Grain | Weyermann - Pilsner Malt    | 1.5 kg (25%)  | 81 %  | 5   |
| Grain | Płatki pszeniczne           | 2 kg (33.3%)  | 85 %  | 3   |
| Grain | Płatki owsiane              | 0.5 kg (8.3%) | 85 %  | 3   |

### Hops

| Use for             | Name  | Amount | Time   | Alpha acid |
|---------------------|-------|--------|--------|------------|
| Boil                | Lomik | 5 g    | 60 min | 4.6 %      |
| Boil                | Lomik | 20 g   | 30 min | 4.6 %      |
| Aroma (end of boil) | Lomik | 25 g   | 15 min | 4.6 %      |

### Yeasts

| Name               | Type  | Form   | Amount | Laboratory       |
|--------------------|-------|--------|--------|------------------|
| FM20 Białe Walonki | Wheat | Liquid | 800 ml | fermentum mobile |

### Extras

| Type  | Name     | Amount | Use for | Time  |
|-------|----------|--------|---------|-------|
| Spice | Kolendra | 15 g   | Boil    | 5 min |
| Spice | Curacao  | 15 g   | Boil    | 5 min |