

P.33 - Witbier 4

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **12**
- SRM **3.4**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **11 %/h**
- Boil size **27.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **64 C**, Time **70 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **13.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **70 min** at **64C**
- Keep mash **1 min** at **78C**
- Sparge using **18.1 liter(s)** of **76C** water or to achieve **27.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|-----------------------|--------------|-------|-----|
| Grain | Pilznieński | 2.5 kg (50%) | 81 % | 4 |
| Grain | Pszenica niesłodowana | 1 kg (20%) | 80 % | 3 |
| Grain | Wheat, Flaked | 0.5 kg (10%) | 77 % | 4 |
| Grain | Oats, Flaked | 0.5 kg (10%) | 80 % | 2 |
| Adjunct | Chleb pszenny | 0.5 kg (10%) | 75 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | East Kent Goldings | 15 g | 60 min | 5.1 % |
| Boil | Saaz (Czech Republic) | 15 g | 15 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------|-------|--------|--------|------------------|
| FM20 Białe Walonki | Wheat | Liquid | 60 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

| | | | | |
|-------|--|------|------|-------|
| Spice | Suszona skórka gorzkiej pomarańczy curacao | 20 g | Boil | 1 min |
| Spice | Suszona skórka słodkiej pomarańczy | 20 g | Boil | 1 min |
| Spice | Suszona skórka cytryny | 20 g | Boil | 1 min |
| Spice | Kolendra | 8 g | Boil | 3 min |
| Spice | Aframon | 8 g | Boil | 3 min |