

# Witbier z zestawem grejpfruta

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **18**
- SRM **3.6**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **12.5 liter(s)**
- Trub loss **4 %**
- Size with trub loss **13 liter(s)**
- Boil time **70 min**
- Evaporation rate **20 %/h**
- Boil size **16.5 liter(s)**

## Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **10 liter(s)**
- Total mash volume **12.8 liter(s)**

## Steps

- Temp **68 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **10 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **40 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **9.4 liter(s)** of **76C** water or to achieve **16.5 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Pilzneński                  | 1.5 kg (52.6%) | 81 %  | 4   |
| Grain | Oats, Flaked                | 0.8 kg (28.1%) | 80 %  | 2   |
| Grain | Strzegom Pszeniczny         | 0.5 kg (17.5%) | 81 %  | 6   |
| Grain | Weyermann - Acidulated Malt | 0.05 kg (1.8%) | 80 %  | 6   |

## Hops

| Use for | Name                | Amount | Time   | Alpha acid |
|---------|---------------------|--------|--------|------------|
| Boil    | Hallertau Tradition | 20 g   | 60 min | 4.7 %      |

## Yeasts

| Name             | Type | Form | Amount | Laboratory |
|------------------|------|------|--------|------------|
| Brewferm Blanche | Ale  | Dry  | 5 g    | ---        |

## Extras

| Type  | Name     | Amount | Use for | Time   |
|-------|----------|--------|---------|--------|
| Spice | Kolendra | 10 g   | Boil    | 15 min |
| Spice | Curacao  | 15 g   | Boil    | 15 min |

|       |                              |      |           |           |
|-------|------------------------------|------|-----------|-----------|
| Spice | Bergamotka                   | 26 g | Boil      | 15 min    |
| Spice | Zest z grejpfruta czerwonego | 42 g | Secondary | 10 day(s) |