

# Festive Witbier

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **15**
- SRM **3.6**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.7 liter(s)**
- Total mash volume **11.6 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**

## Mash step by step

- Heat up **8.7 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Sparge using **8.7 liter(s)** of **76C** water or to achieve **14.5 liter(s)** of wort

## Fermentables

| Type  | Name              | Amount         | Yield | EBC |
|-------|-------------------|----------------|-------|-----|
| Grain | Pilzneński        | 1 kg (34.5%)   | 81 %  | 4   |
| Grain | Pszeniczny        | 1 kg (34.5%)   | 85 %  | 4   |
| Grain | Płatki owsiane    | 0.7 kg (24.1%) | 60 %  | 3   |
| Grain | Płatki pszeniczne | 0.2 kg (6.9%)  | 60 %  | 3   |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Marynka | 10 g   | 60 min | 7.9 %      |
| Dry Hop | Citra   | 50 g   | ---    | 12 %       |

## Yeasts

| Name   | Type | Form | Amount | Laboratory |
|--------|------|------|--------|------------|
| Jovaru | Ale  | Dry  | 10 g   | ---        |

## Extras

| Type   | Name              | Amount | Use for | Time  |
|--------|-------------------|--------|---------|-------|
| Spice  | Kolendra          | 8 g    | Boil    | 5 min |
| Flavor | Curacao           | 15 g   | Boil    | 5 min |
| Flavor | Zest z pomaranczy | 2 g    | Boil    | 5 min |

|        |                  |       |          |        |
|--------|------------------|-------|----------|--------|
| Fining | Whirlflock       | 0.5 g | Boil     | 10 min |
| Other  | Brokat spożywczy | 4 g   | Bottling | ---    |