

# Belgian Witbier

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **15**
- SRM **3.8**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.4 liter(s)**
- Total mash volume **15.2 liter(s)**

## Steps

- Temp **50 C**, Time **20 min**
- Temp **66 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **11.4 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **20 min** at **50C**
- Keep mash **70 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **11.4 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

## Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński | 2 kg (52.6%)   | 80 %  | 4   |
| Grain | Płatki orkiszowe    | 0.8 kg (21.1%) | 80 %  | 6   |
| Grain | Płatki pszeniczne   | 0.4 kg (10.5%) | 85 %  | 3   |
| Grain | Płatki owsiane      | 0.4 kg (10.5%) | 85 %  | 3   |
| Grain | Rice, Flaked        | 0.2 kg (5.3%)  | 70 %  | 2   |

## Hops

| Use for | Name               | Amount | Time   | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil    | Extra Styrian Dana | 5 g    | 60 min | 13.2 %     |
| Boil    | Extra Styrian Dana | 5 g    | 15 min | 13.2 %     |

## Yeasts

| Name                            | Type  | Form | Amount | Laboratory      |
|---------------------------------|-------|------|--------|-----------------|
| Mangrove Jack's M21 Belgian Wit | Wheat | Dry  | 11 g   | Mangrove Jack's |

## Extras

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

|       |   |      |      |        |
|-------|---|------|------|--------|
| Spice | Kolendra indyjska<br>tłuczona             | 10 g | Boil | 10 min |
| Spice | Skórka cytrynowa<br>świeża                | 20 g | Boil | 10 min |
| Spice | Skórka<br>pomarańczowa<br>świeża          | 20 g | Boil | 10 min |
| Spice | Skórka<br>pomarańczowa<br>suszona KOTANIY | 15 g | Boil | 10 min |
| Spice | Trawa cytrynowa                           | 5 g  | Boil | 5 min  |