

# Witbier

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **15**
- SRM **3.5**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **28.8 liter(s)**

## Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.9 liter(s)**
- Total mash volume **13.2 liter(s)**

## Steps

- Temp **52 C**, Time **5 min**
- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **9.9 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **5 min** at **52C**
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **22.2 liter(s)** of **76C** water or to achieve **28.8 liter(s)** of wort

## Fermentables

| Type    | Name                  | Amount       | Yield | EBC |
|---------|-----------------------|--------------|-------|-----|
| Grain   | Pilzneński            | 3.3 kg (60%) | 81 %  | 4   |
| Adjunct | Pszenica niestodowana | 2.2 kg (40%) | 75 %  | 3   |

## Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | lunga | 15 g   | 60 min | 10 %       |

## Yeasts

| Name                            | Type  | Form | Amount | Laboratory      |
|---------------------------------|-------|------|--------|-----------------|
| Mangrove Jack's M21 Belgian Wit | Wheat | Dry  | 10 g   | Mangrove Jack's |

## Extras

| Type   | Name              | Amount | Use for | Time  |
|--------|-------------------|--------|---------|-------|
| Flavor | Kolendra indyjska | 15 g   | Boil    | 5 min |
| Flavor | Curacao           | 30 g   | Boil    | 5 min |