

witbier

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **21**
- SRM **3.5**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.75 liter(s) / kg**
- Mash size **16.9 liter(s)**
- Total mash volume **21.4 liter(s)**

Steps

- Temp **45 C**, Time **15 min**
- Temp **55 C**, Time **15 min**
- Temp **65 C**, Time **45 min**
- Temp **70 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16.9 liter(s)** of strike water to **48.3C**
- Add grains
- Keep mash **15 min** at **45C**
- Keep mash **15 min** at **55C**
- Keep mash **45 min** at **65C**
- Keep mash **10 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **12.9 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 2 kg (44.4%) | 80 % | 5 |
| Grain | Pszenica niesłodowana | 1 kg (22.2%) | 75 % | 3 |
| Grain | Pszeniczny | 1 kg (22.2%) | 85 % | 4 |
| Grain | Płatki owsiane | 0.5 kg (11.1%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | Saaz (Czech Republic) | 25 g | 60 min | 4 % |
| Boil | Styrian Golding | 25 g | 60 min | 2.8 % |
| Boil | Saaz (Czech Republic) | 5 g | 15 min | 4 % |
| Boil | Styrian Golding | 5 g | 15 min | 2.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|-------|------|--------|------------|
| wb-06 | Wheat | Dry | 10 g | Gozdawa |

Extras

| Type | Name | Amount | Use for | Time |
|-------|----------------------------|--------|---------|-------|
| Spice | kolendra | 15 g | Boil | 5 min |
| Other | Skórka słodkiej pomarańczy | 10 g | Boil | 5 min |
| Spice | Curacao | 10 g | Boil | 5 min |
| Other | Trawa cytrynowa | 5 g | Boil | 5 min |
| Other | Werbena cytrynowa | 5 g | Boil | 5 min |
| Spice | Kurkuma | 5 g | Boil | 5 min |

Notes

- Kolendrę rozgnieść
Jun 9, 2018, 3:34 PM