

witbier

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **22**
- SRM **3.5**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **29.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **23.2 liter(s)**

Steps

- Temp **65 C**, Time **30 min**
- Temp **68 C**, Time **30 min**
- Temp **73 C**, Time **30 min**
- Temp **81 C**, Time **10 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **30 min** at **65C**
- Keep mash **30 min** at **68C**
- Keep mash **30 min** at **73C**
- Keep mash **10 min** at **81C**
- Sparge using **17.9 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------|----------------|-------|-----|
| Grain | Pszeniczny | 3.2 kg (55.2%) | 85 % | 4 |
| Grain | pilżeński optima | 1.6 kg (27.6%) | 85 % | 3 |
| Grain | Płatki pszeniczne | 1 kg (17.2%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil | Lomik | 50 g | 60 min | 3.8 % |
| Aroma (end of boil) | Willamette | 20 g | 15 min | 5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------|-------|-------|--------|------------|
| bfsay gozdawa | Wheat | Slant | 200 ml | gozdawa |

Extras

| Type | Name | Amount | Use for | Time |
|-------|-------------------------|--------|---------|--------|
| Spice | kolendra ziarno mielone | 20 g | Boil | 10 min |

| | | | | |
|--------|------------------------------------|------|------|--------|
| Flavor | skórka słodkiej pomarańczy suszona | 40 g | Boil | 10 min |
| Flavor | skórka pomarańczy gorzkiej | 8 g | Boil | 10 min |

Notes

- chwilowo zawiesił się kocioł stąd te dzwiny temperatury.
Woda 80% r.o reszta kranowa twarda
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