

witek

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **22**
- SRM **4.1**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.6 liter(s)**
- Total mash volume **11.5 liter(s)**

Steps

- Temp **45 C**, Time **25 min**
- Temp **69 C**, Time **55 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **8.6 liter(s)** of strike water to **49.2C**
- Add grains
- Keep mash **25 min** at **45C**
- Keep mash **55 min** at **69C**
- Keep mash **10 min** at **76C**
- Sparge using **9.5 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Briess - Wheat Malt, White | 1.8 kg (62.5%) | 85 % | 5 |
| Grain | Oats, Flaked | 0.08 kg (2.8%) | 80 % | 2 |
| Grain | Pale Malt (2 Row) UK | 1 kg (34.7%) | 78 % | 6 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | Saaz (Czech Republic) | 15 g | 60 min | 3 % |
| Boil | Golding | 18 g | 45 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------------|------|--------|--------|-------------|
| Wyeast - Belgian Witbier | Ale | Liquid | 50 ml | Wyeast Labs |

Extras

| Type | Name | Amount | Use for | Time |
|-------|----------------|--------|---------|--------|
| Spice | colendian seed | 5 g | Boil | 10 min |

| | | | | |
|-------|--------------------|------|------|--------|
| Spice | orange peel | 25 g | Boil | 10 min |
| Spice | bitter orange peel | 9 g | Boil | 10 min |