

Witbier

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **22**
- SRM **3.7**
- 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 **90 min**
- Evaporation rate **10 %/h**
- Boil size **15.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.4 liter(s)**
- Total mash volume **11.2 liter(s)**

Steps

- Temp **48 C**, Time **10 min**
- Temp **62 C**, Time **30 min**
- Temp **73 C**, Time **30 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **8.4 liter(s)** of strike water to **52.7C**
- Add grains
- Keep mash **10 min** at **48C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **73C**
- Keep mash **5 min** at **77C**
- Sparge using **10.3 liter(s)** of **76C** water or to achieve **15.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------------|----------------|-------|-----|
| Grain | Weyermann - Słód Pilżeński | 1.6 kg (57.1%) | 81 % | 5 |
| Grain | Weyermann - Słód Pszeniczny Jasny | 0.9 kg (32.1%) | 81 % | 4 |
| Grain | Płatki pszeniczne | 0.3 kg (10.7%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil | Willamette | 15 g | 60 min | 4.5 % |
| Boil | Willamette | 5 g | 15 min | 4.5 % |
| Boil | Sterling | 7 g | 15 min | 7.1 % |
| Boil | Sterling | 8 g | 5 min | 7.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safbrew S-33 | Ale | Dry | 11.5 g | Fermentis |

Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|--------|------------------------------------|--------|---------|--------|
| Flavor | skórka słodkiej pomarańczy | 10 g | Boil | 15 min |
| Flavor | skórka gorzkiej pomarańczy Curacao | 10 g | Boil | 15 min |
| Spice | kolendra | 10 g | Boil | 15 min |