

Witbier

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **11**
- SRM **3.8**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **55 C**, Time **20 min**
- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **0 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **20 min** at **55C**
- Keep mash **45 min** at **64C**
- Keep mash **0 min** at **72C**
- Sparge using **19.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|----------------|-------|-----|
| Grain | Weyermann - Pilsner Malt | 3.5 kg (58.3%) | 81 % | 5 |
| Grain | Pszeniczny | 1 kg (16.7%) | 85 % | 4 |
| Grain | Płatki pszeniczne | 1 kg (16.7%) | 60 % | 3 |
| Grain | Weyermann - Carapils | 0.5 kg (8.3%) | 78 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------|--------|--------|------------|
| Boil | Szyszka lubelski | 30 g | 60 min | 4 % |
| Aroma (end of boil) | Szyszka lybelski | 30 g | 0 min | 4 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------|-------|--------|--------|------------------|
| FM20 Białe Walonki | Wheat | Liquid | 1.5 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

| | | | | |
|-------------|-----------------|------|------|--------|
| Spice | Kolendra | 30 g | Boil | 10 min |
| Flavor | Limonka zest | 20 g | Boil | 10 min |
| Flavor | Pomarańcza zest | 20 g | Boil | 10 min |
| Water Agent | Kawa mlekowy 80 | 30 g | Mash | 60 min |