

Witbier

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **13**
- SRM **4**
- 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 **65 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **10.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------|----------------|-------|-----|
| Grain | Pilzneński | 1.75 kg (50%) | 81 % | 4 |
| Grain | Pszeniczny | 0.875 kg (25%) | 80 % | 4 |
| Grain | Płatki pszeniczne | 0.875 kg (25%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil | Lublin (Lubelski) | 15 g | 60 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------|-------|--------|--------|------------------|
| oslo kveik | Wheat | Liquid | 0.6 ml | --- |
| FM20 Białe Walonki | Wheat | Liquid | 0.6 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------|--------|---------|-------|
| Spice | Kolendra indyjska | 10 g | Boil | 5 min |
| Flavor | skórka pomarańczy | 10 g | Boil | 5 min |

| | | | | |
|--------|-------------------------------|------|------|-------|
| Flavor | skórka pomarańczy gorzkiej | 10 g | Boil | 5 min |
|--------|-------------------------------|------|------|-------|