

## Witbier (zestaw Browamator)

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **23**
- SRM **3.7**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **3 %**
- Size with trub loss **20.6 liter(s)**
- Boil time **90 min**
- Evaporation rate **5 %/h**
- Boil size **23.2 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.3 liter(s)**

### Steps

- Temp **62 C**, Time **30 min**
- Temp **73 C**, Time **30 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **73C**
- Sparge using **12.5 liter(s)** of **76C** water or to achieve **23.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg (58.1%)	81 %	4
Grain	Weyermann - Acidulated Malt	1.3 kg (30.2%)	80 %	6
Grain	Płatki pszeniczne	0.5 kg (11.6%)	85 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Styrian Golding	30 g	60 min	3.6 %
Boil	Styrian Golding	10 g	15 min	3.6 %
Boil	Saaz (Czech Republic)	15 g	15 min	4.5 %
Boil	Saaz (Czech Republic)	15 g	5 min	4.5 %
Boil	Styrian Golding	20 g	5 min	3.6 %

### Yeasts

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

### Extras

Type	Name	Amount	Use for	Time
Spice	skórka pomarańczy gorzkiej	20 g	Boil	15 min
Spice	skórka pomarańczy słodkiej	20 g	Boil	15 min
Spice	kolendra	20 g	Boil	15 min