

# Witbier

- Gravity **9.3 BLG**
- ABV **3.6 %**
- IBU **19**
- SRM **2.8**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **10 liter(s)**
- Total mash volume **12.5 liter(s)**

## Steps

- Temp **52 C**, Time **20 min**
- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **25 min**

## Mash step by step

- Heat up **10 liter(s)** of strike water to **56C**
- Add grains
- Keep mash **20 min** at **52C**
- Keep mash **60 min** at **63C**
- Keep mash **25 min** at **72C**
- Sparge using **17.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (57.1%)	81 %	4
Grain	Pszeniczny	0.5 kg (14.3%)	85 %	4
Adjunct	Pszenica niesłodowana	1 kg (28.6%)	75 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	30 g	60 min	4 %
Boil	Mosaic	15 g	5 min	10 %
Aroma (end of boil)	Amarillo	30 g	0 min	9.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's - Belgian Wit M21	Wheat	Dry	10 g	Mangrove Jack's

## Extras

Type	Name	Amount	Use for	Time
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Spice	Kolendra	15 g	Boil	10 min
Spice	Curacao	15 g	Boil	10 min
Flavor	płatki owsiane	200 g	Mash	30 min