

## BA Witbier 13

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- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **26**
- SRM **3.8**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **25.2 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.9 liter(s)**
- Total mash volume **17.2 liter(s)**

### Steps

- Temp **50 C**, Time **0 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 **12.9 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **0 min** at **50C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **73C**
- Keep mash **5 min** at **77C**
- Sparge using **16.6 liter(s)** of **76C** water or to achieve **25.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	2.5 kg (58.1%)	81 %	5
Grain	Weyermann - Pale Wheat Malt	1.3 kg (30.2%)	85 %	5
Grain	Platki pszeniczne	0.5 kg (11.6%)	85 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Willamette	30 g	60 min	5 %
Boil	Willamette	10 g	15 min	5 %
Boil	Saaz (Czech Republic)	15 g	15 min	4.5 %
Aroma (end of boil)	Saaz (Czech Republic)	15 g	5 min	4.5 %

### Yeasts

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

## Extras

Type	Name	Amount	Use for	Time
Spice	Curacao	20 g	Boil	15 min
Spice	Skórka słodkiej pomarańczy	20 g	Boil	15 min
Spice	Zmielona kolendra	20 g	Boil	15 min

## Notes

- 140 glukozy  
*Mar 23, 2018, 5:59 PM*