

## #2 Witbier Kolender

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- Gravity **11.6 BLG**
- ABV ---
- IBU **15**
- SRM **3.8**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **10 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **34.5 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

### Steps

- Temp **45 C**, Time **30 min**
- Temp **53 C**, Time **10 min**
- Temp **64 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **0 min**

### Mash step by step

- Heat up **19.3 liter(s)** of strike water to **48.6C**
- Add grains
- Keep mash **30 min** at **45C**
- Keep mash **10 min** at **53C**
- Keep mash **50 min** at **64C**
- Keep mash **10 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **20.7 liter(s)** of **76C** water or to achieve **34.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Wheat, Torrified	2 kg (36.4%)	79 %	4
Grain	Pilzneński	3 kg (54.5%)	81 %	4
Grain	Oats, Flaked	0.5 kg (9.1%)	80 %	2

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	30 min	10 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Classic Belgian Witbier	Ale	Dry	10 g	Gozdawa

### Extras

Type	Name	Amount	Use for	Time
Spice	kolendra	15 g	Boil	5 min

Spice	curacao	20 g	Boil	5 min
Other	skórka pomarańczy	30 g	Boil	5 min