Witbier ala Żywiec białe

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU ---
- SRM **3.5**

Batch size

- Expected quantity of finished beer 30 liter(s)
- Trub loss 5 %
- Size with trub loss 31.5 liter(s)
- Boil time **70 min**
- Evaporation rate 10 %/h
- Boil size 38.5 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 2 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp **67 C**, Time **25 min** Temp **55 C**, Time **20 min** Temp **64 C**, Time **70 min**

- Temp 76 C, Time 5 min

Mash step by step

- Heat up 15 liter(s) of strike water to 63.8C
- Add grains
- Keep mash 20 min at 55C
- Keep mash 70 min at 64C
- Keep mash 25 min at 67C
- Keep mash 5 min at 76C
- Sparge using 31 liter(s) of 76C water or to achieve 38.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Słód Pilsner® 2,5-4,5 EBC Weyermann	3.75 kg <i>(49.9%)</i>	80 %	4
Grain	Płatki pszeniczne	3.38 kg <i>(45%)</i>	85 %	3
Grain	Płatki owsiane	0.38 kg (5.1%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Mash	Saaz (Czech Republic)	30 g	60 min	4.5 %
Mash	Saaz (Czech Republic)	22.5 g	15 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-05	Wheat	Dry	5 g	

Extras

Туре	Name	Amount	Use for	Time
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Spice	kolendra	10.5 g	Boil	65 min
Spice	curacao	30 g	Boil	65 min