

Książulo

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **43**
- SRM **4.6**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **26 liter(s)**
- Total mash volume **32.5 liter(s)**

Steps

- Temp **63 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **26 liter(s)** of strike water to **68.4C**
- Add grains
- Keep mash **90 min** at **63C**
- Keep mash **5 min** at **78C**
- Sparge using **12.2 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	5 kg (76.9%)	85 %	4
Grain	Strzegom Monachijski typ I	1 kg (15.4%)	79 %	16
Grain	Płatki owsiane	0.5 kg (7.7%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Marynka	20 g	60 min	9 %
Boil	Książęcy	30 g	10 min	8.2 %
Whirlpool	Książęcy	70 g	30 min	8.2 %
Dry Hop	Książęcy	100 g	5 day(s)	8.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Lallemand - LalBrew Verdant IPA	Ale	Slant	300 ml	Lallemand

Extras

Type	Name	Amount	Use for	Time
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Spice	kolendra	25 g	Boil	10 min
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