Król lata

- Gravity 10.5 BLG
- ABV 4.2 %
- IBU **40**
- SRM **3**
- Style Witbier

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 12.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.1 liter(s) / kg
- Mash size **6.2 liter(s)**
- Total mash volume 8.2 liter(s)

Steps

- Temp **64 C**, Time **45 min** Temp **72 C**, Time **45 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 6.2 liter(s) of strike water to 71.1C
- Add grains
- Keep mash 45 min at 64C
- Keep mash 45 min at 72C
- Keep mash 10 min at 78C
- Sparge using 8.6 liter(s) of 76C water or to achieve 12.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	1 kg <i>(50%)</i>	81 %	4
Grain	Płatki pszeniczne	0.8 kg <i>(40%)</i>	85 %	3
Grain	Viking Wheat Malt	0.2 kg (10%)	83 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	6 g	60 min	15.3 %
Boil	Citra	6 g	30 min	14.1 %
Aroma (end of boil)	Citra	10 g	1 min	14.1 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	10 g	1 min	15.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11 g	Fermentis

Extras

Type Name	Amount	Use for	Time
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Spice	Kolendra	4 g	Boil	5 min
Spice	Curacao	13 g	Boil	5 min