White "wine"

- Gravity 12.6 BLG
- ABV 5.1 %
- IBU **31**
- SRM 3.6
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss --- %
- Size with trub loss 20 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 24.2 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.3 liter(s)
- Total mash volume 16.4 liter(s)

Steps

- Temp 55 C, Time 10 min
 Temp 63 C, Time 15 min
- Temp 100 C, Time 10 min
- Temp **72 C**, Time **15 min** Temp **100 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 12.3 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 15 min at 63C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Keep mash 10 min at 100C
- Keep mash 10 min at 100C
- Sparge using 16 liter(s) of 76C water or to achieve 24.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Ireks pilzneński	4 kg (97.6%)	83 %	4
Grain	Ireks Palisander	0.1 kg <i>(2.4%)</i>	82 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla 2017	35 g	80 min	6.7 %
Whirlpool	Lubelski 2018	30 g	20 min	2.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Lagerowe	Lager	Slant	200 ml	Х