Birch Smoked Lager

- Gravity 10.2 BLG
- ABV 4.1 %
- IBU **35**
- SRM **4.2**
- Style Classic American Pilsner

Batch size

- Expected quantity of finished beer 10.5 liter(s)
- Trub loss 10 %
- Size with trub loss 11.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 14.4 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 7.5 liter(s)
- Total mash volume 10 liter(s)

Steps

- Temp 63 C, Time 50 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 7.5 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 50 min at 63C
- Keep mash 1 min at 78C
- Sparge using 9.4 liter(s) of 76C water or to achieve 14.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Malt Wędzony Brzozą	2 kg (80%)	82 %	7
Grain	Rice, Flaked	0.5 kg <i>(20%)</i>	70 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	11 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - Munich Lager	Lager	Liquid	500 ml	Wyeast Labs

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	3 g	Boil	10 min