Lager 2 Opt

- Gravity 13.3 BLG
- ABV 5.5 %
- IBU 19
- SRM 4
- Style Standard American Lager

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 54 C, Time 20 min
 Temp 62 C, Time 30 min
- Temp 72 C, Time 30 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 59.7C
- · Add grains
- Keep mash 20 min at 54C
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Sparge using 15.5 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński Jasny Optima	5 kg <i>(90.9%)</i>	81 %	4
Grain	Wiedeński Optima	0.5 kg (9.1%)	81 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Brewers Gold	25 g	60 min	4.5 %
Aroma (end of boil)	Hallertau Spalt Select	50 g	15 min	2.9 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	100 ml	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirflfloc	1 g	Boil	10 min