Lager

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU 40
- SRM **3.8**
- Style Standard American Lager

Batch size

- Expected quantity of finished beer 11 liter(s)
- Trub loss 5 %
- Size with trub loss 11.6 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 14 liter(s)

Mash information

- Mash efficiency 60 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 8.7 liter(s)
- Total mash volume 11.6 liter(s)

Steps

- Temp **63 C**, Time **45 min** Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 8.7 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 45 min at 63C
- Keep mash 30 min at 72C
- Keep mash 5 min at 78C
- Sparge using 8.2 liter(s) of 76C water or to achieve 14 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg <i>(86.2%)</i>	81 %	4
Grain	Weyermann - Carapils	0.4 kg <i>(13.8%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	13.5 %
Aroma (end of boil)	Sorachi Ace	15 g	10 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	whirfloc	0.5 g	Boil	5 min