# **German Lager**

- Gravity 10.5 BLG
- ABV 4.2 %
- IBU 22
- SRM **7**
- Style German Pilsner (Pils)

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

# **Mash information**

- Mash efficiency 79 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

# **Steps**

- Temp 65 C, Time 60 min
  Temp 85 C, Time 1 min

# Mash step by step

- Heat up 12 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 1 min at 85C
- Sparge using 17.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ I	4 kg (100%)	79 %	16

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lomik	30 g	60 min	6.2 %
Dry Hop	Saaz (Czech Republic)	40 g	7 day(s)	4.3 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
SAFLAGER S-189	Lager	Dry	11.5 g	Fermentis