# Lager kombi

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **22**
- SRM **4.6**
- Style Standard American Lager

### **Batch size**

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- Boil time 60 min
- Evaporation rate 5 %/h
- Boil size 27.7 liter(s)

## **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 19.3 liter(s)
- Total mash volume 24.8 liter(s)

#### **Steps**

- Temp 67 C, Time 80 min
  Temp 78 C, Time 10 min

# Mash step by step

- Heat up 19.3 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 80 min at 67C
- Keep mash 10 min at 78C
- Sparge using 13.9 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

#### **Fermentables**

| Туре  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Viking Pilsner malt | 4.5 kg (81.8%) | 82 %  | 4   |
| Grain | Viking Munich Malt  | 1 kg (18.2%)   | 78 %  | 18  |

## Hops

| Use for | Name                     | Amount | Time   | Alpha acid |
|---------|--------------------------|--------|--------|------------|
| Boil    | Chinook                  | 20 g   | 30 min | 8.8 %      |
| Boil    | Saaz (Czech<br>Republic) | 30 g   | 10 min | 3.2 %      |
| Boil    | Hallertau Blanc          | 20 g   | 10 min | 8.4 %      |

## **Yeasts**

| Name   | Туре  | Form   | Amount | Laboratory |
|--------|-------|--------|--------|------------|
| w34/70 | Lager | Liquid | 400 ml | saflager   |