# **#13 American Lager**

- Gravity 9.5 BLG
- ABV ---
- IBU 43
- SRM **3**
- Style Standard American Lager

### **Batch size**

- Expected quantity of finished beer 45 liter(s)
- Trub loss 5 %
- Size with trub loss 47.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 57 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 23.3 liter(s)
- Total mash volume 31 liter(s)

### **Steps**

- Temp 64 C, Time 30 min
  Temp 72 C, Time 40 min
- Temp 78 C, Time 0 min

### Mash step by step

- Heat up 23.3 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 30 min at 64C
- Keep mash 40 min at 72C
- Keep mash 0 min at 78C
- Sparge using 41.5 liter(s) of 76C water or to achieve 57 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Bohemian Pilsner Malt	6 kg <i>(77.4%)</i>	81 %	4
Grain	Weyermann - Carapils	1.75 kg <i>(22.6%)</i>	78 %	4

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	20 g	60 min	6.7 %
Boil	Citra	20 g	30 min	13.5 %
Boil	Cascade	30 g	30 min	6.7 %
Boil	Citra	30 g	10 min	13.5 %
Boil	Amarillo	25 g	10 min	8 %
Dry Hop	Citra	50 g	0 day(s)	13.5 %
Dry Hop	Amarillo	25 g	0 day(s)	8 %

#### **Yeasts**

Name Typ	/pe	Form	Amount	Laboratory
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Saflager S-23 Lager Dry	23 g	Fermentis Division of S.I.Lesaffre
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## **Extras**

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	10 g	Boil	15 min