

# American Lager

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **27**
- SRM **3.7**
- Style **Premium American Lager**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **32.4 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

## Steps

- Temp **50 C**, Time **10 min**
- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **16.5 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **21.4 liter(s)** of **76C** water or to achieve **32.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (90.9%)	81 %	4
Grain	Weyermann - Carapils	0.3 kg (5.5%)	78 %	4
Grain	Carahell	0.2 kg (3.6%)	77 %	26

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	10 g	45 min	13.2 %
Boil	Citra	20 g	30 min	12 %
Whirlpool	Simcoe	30 g	0 min	13.2 %
Whirlpool	Citra	30 g	0 min	12 %

## Yeasts

Name	Type	Form	Amount	Laboratory
34/70	Lager	Slant	400 ml	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Fining	Mech irladzki	5 g	Boil	10 min