

# American Lager

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- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **48**
- SRM **3.6**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **25.6 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **21 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **15.8 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **15.1 liter(s)** of **76C** water or to achieve **25.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilznieński	5 kg (95.2%)	81 %	4
Grain	Płatki owsiane	0.25 kg (4.8%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Pacifica (NZ)	30 g	1 min	5.5 %
Boil	Pacifica (NZ)	30 g	15 min	5.5 %
Boil	Citra	30 g	45 min	13.7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Finning	Mech irlandzki	3 g	Boil	45 min