

# citra pils

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- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **26**
- SRM **3.7**
- Style **Classic American Pilsner**

## 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 **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **62 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **10 min** at **72C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (100%)	81 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	5 g	60 min	12 %
Boil	El Dorado	5 g	60 min	12.2 %
Boil	Citra	10 g	10 min	12 %
Boil	El Dorado	10 g	10 min	12 %
Aroma (end of boil)	Citra	25 g	3 min	12 %

## Yeasts

Name	Type	Form	Amount	Laboratory
w-34/70	Lager	Dry	22 g	fermentis