

## Citra / Cascade APA

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **30**
- SRM **3.2**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **12.1 liter(s)**

### Mash information

- Mash efficiency **74 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6.1 liter(s)**
- Total mash volume **8.2 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**

### Mash step by step

- Heat up **6.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **8.1 liter(s)** of **76C** water or to achieve **12.1 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	1.15 kg (52.3%)	81 %	4
Grain	Płatki owsiane	0.25 kg (11.4%)	85 %	3
Sugar	Glukoza	0.15 kg (6.8%)	--- %	---
Grain	Pszeniczny	0.65 kg (29.5%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	10 g	30 min	12.1 %
Boil	Cascade	10 g	20 min	5.5 %
Boil	Citra	10 g	1 min	12.1 %
Dry Hop	Citra	10 g	7 day(s)	12.1 %
Dry Hop	Cascade	20 g	7 day(s)	5.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	5 g	Fermetis