

Citra APA

- Gravity **14 BLG**
- ABV ---
- IBU **39**
- SRM **7.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.4 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.4 liter(s)**
- Total mash volume **15.2 liter(s)**

Steps

- Temp **66 C**, Time **0 min**
- Temp **63 C**, Time **20 min**
- Temp **72 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **11.4 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **20 min** at **63C**
- Keep mash **0 min** at **66C**
- Keep mash **70 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.8 liter(s)** of **76C** water or to achieve **22.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	2.5 kg (65.8%)	85 %	4
Grain	Viking Munich Malt	1 kg (26.3%)	85 %	22
Grain	Strzegom Karmel 150	0.15 kg (3.9%)	75 %	150
Grain	Viking Wheat Malt	0.15 kg (3.9%)	85 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	60 min	12 %
Aroma (end of boil)	Citra	15 g	10 min	12 %
Aroma (end of boil)	Citra	15 g	0 min	12 %
Dry Hop	Citra	50 g	6 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	250 ml	---