

## APA citra, sabro

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- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **76**
- SRM **3.8**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **0 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

### Mash information

- Mash efficiency **79 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

### Steps

- Temp **63 C**, Time **30 min**
- Temp **73 C**, Time **30 min**
- Temp **77 C**, Time **10 min**

### Mash step by step

- Heat up **16.5 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **30 min** at **63C**
- Keep mash **30 min** at **73C**
- Keep mash **10 min** at **77C**
- Sparge using **13.1 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5 kg	80 %	9
Grain	Pszeniczny	0.5 kg	85 %	9

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	10 g	60 min	12.7 %
Aroma (end of boil)	Citra	30 g	15 min	13.1 %
Aroma (end of boil)	Sabro	30 g	15 min	14.8 %
Whirlpool	Citra	20 g	30 min	13.1 %
Whirlpool	Sabro	20 g	30 min	14.8 %
Dry Hop	Sabro	50 g	0 day(s)	14.8 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis