

## APA #4

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- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **41**
- SRM **4.8**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.9 liter(s)**
- Total mash volume **25.6 liter(s)**

### Steps

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

### Mash step by step

- Heat up **19.9 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (87.7%)	80 %	5
Grain	Pszeniczny	0.2 kg (3.5%)	85 %	4
Grain	Strzegom Monachijski typ I	0.5 kg (8.8%)	79 %	16

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	25 g	60 min	13 %
Boil	Citra	10 g	10 min	12 %
Boil	Mosaic	10 g	10 min	10 %
Aroma (end of boil)	Citra	20 g	0 min	12 %
Aroma (end of boil)	Mosaic	20 g	0 min	10 %
Dry Hop	Citra	50 g	4 day(s)	12 %
Dry Hop	Mosaic	50 g	4 day(s)	10 %

### Yeasts

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