

## Oat APA

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **38**
- SRM **3.8**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **10 %**
- Size with trub loss **20.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **14.1 liter(s)**
- Total mash volume **18.5 liter(s)**

### Steps

- Temp **67 C**, Time **50 min**
- Temp **75 C**, Time **10 min**

### Mash step by step

- Heat up **14.1 liter(s)** of strike water to **74.3C**
- Add grains
- Keep mash **50 min** at **67C**
- Keep mash **10 min** at **75C**
- Sparge using **15.6 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (38.1%)	81 %	4
Grain	Pale Ale Strzegom	2 kg (38.1%)	80 %	6
Liquid Extract	Makaruja pulpa	0.85 kg (16.2%)	--- %	---
Grain	Oats, Flaked	0.4 kg (7.6%)	80 %	2

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	12 %
Boil	Columbus/Tomahawk/Zeus	10 g	25 min	15.5 %
Aroma (end of boil)	Cascade PL	20 g	0 min	5.2 %
Dry Hop	Equinox	50 g	4 day(s)	13.1 %
Dry Hop	Nelson Sauvín	50 g	4 day(s)	11 %

### Yeasts

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

### Extras

Type	Name	Amount	Use for	Time
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Other	Witamina C	2 g	Bottling	---
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