

## 2#

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **44**
- SRM **3.8**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

### Steps

- Temp **66 C**, Time **90 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **90 min** at **66C**
- Sparge using **14.1 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	2 kg (37%)	80 %	7
Grain	Briess - Pilsen Malt	2.8 kg (51.9%)	80.5 %	2
Grain	Oats, Flaked	0.2 kg (3.7%)	80 %	2
Sugar	Milk Sugar (Lactose)	0.4 kg (7.4%)	76.1 %	0

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	10 g	55 min	13 %
Boil	Mosaic	40 g	10 min	10 %
Boil	Citra	60 g	5 min	12 %
Dry Hop	Mosaic	30 g	7 day(s)	10 %
Dry Hop	Citra	30 g	7 day(s)	12 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	10 g	Mangrove Jack's

### Extras

Type	Name	Amount	Use for	Time
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Flavor	mrożony ananas,mango,papaja	1000 g	Secondary	7 day(s)
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