

## Citrusy APA 12' TB

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **55**
- SRM **3.6**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **70 min**
- Evaporation rate **18 %/h**
- Boil size **27.6 liter(s)**

### Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.3 liter(s)**

### Steps

- Temp **65 C**, Time **70 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **71.5C**
- Add grains
- Keep mash **70 min** at **65C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg (58.1%)	80 %	5
Grain	Strzegom Pilzniejszy	1.3 kg (30.2%)	80 %	4
Grain	Pszeniczny	0.5 kg (11.6%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	10 g	60 min	13 %
Boil	Citra	30 g	10 min	12 %
Boil	Cascade	30 g	10 min	6 %
Whirlpool	Chinook	40 g	20 min	13 %
Dry Hop	Cascade	50 g	2 day(s)	6 %
Dry Hop	Centennial	40 g	2 day(s)	10.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M36	Ale	Dry	10 g	Mangrove Jack's