

# APA

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **18**
- SRM **3.6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **10 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **31.4 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **23.2 liter(s)**

## Steps

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

## Mash step by step

- Heat up **17.4 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **70 min** at **65C**
- Sparge using **19.8 liter(s)** of **76C** water or to achieve **31.4 liter(s)** of wort

## Fermentables

| Type  | Name         | Amount         | Yield | EBC |
|-------|--------------|----------------|-------|-----|
| Grain | Pilzneński   | 5.6 kg (96.6%) | 81 %  | 4   |
| Grain | Oats, Malted | 0.2 kg (3.4%)  | 80 %  | 2   |

## Hops

| Use for | Name   | Amount | Time   | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil    | Magnum | 25 g   | 30 min | 10 %       |

## Yeasts

| Name                                     | Type | Form  | Amount | Laboratory      |
|--|------|-------|--------|-----------------|
| Mangrove Jack's M42 New World Strong Ale | Ale  | Slant | 70 ml  | Mangrove Jack's |