

## aipa

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **47**
- SRM **4.2**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

### Steps

- Temp **68 C**, Time **80 min**
- Temp **72 C**, Time **10 min**

### Mash step by step

- Heat up **21 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **80 min** at **68C**
- Keep mash **10 min** at **72C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

### Fermentables

| Type  | Name                | Amount      | Yield | EBC |
|-------|---------------------|-------------|-------|-----|
| Grain | Viking Pilsner malt | 7 kg (100%) | 82 %  | 4   |

### Hops

| Use for             | Name   | Amount | Time     | Alpha acid |
|---------------------|--------|--------|----------|------------|
| Aroma (end of boil) | Mosaic | 20 g   | 15 min   | 12.1 %     |
| Aroma (end of boil) | Citra  | 20 g   | 15 min   | 13.7 %     |
| Aroma (end of boil) | Mosaic | 20 g   | 10 min   | 12.1 %     |
| Aroma (end of boil) | Citra  | 20 g   | 10 min   | 13.7 %     |
| Aroma (end of boil) | Mosaic | 20 g   | 5 min    | 12.1 %     |
| Aroma (end of boil) | Citra  | 20 g   | 5 min    | 13.7 %     |
| Whirlpool           | Mosaic | 20 g   | 0 min    | 12.1 %     |
| Whirlpool           | Citra  | 20 g   | 0 min    | 13.7 %     |
| Dry Hop             | Mosaic | 20 g   | 2 day(s) | 12.1 %     |
| Dry Hop             | Citra  | 20 g   | 2 day(s) | 13.7 %     |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

## Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 5 g    | Boil    | 15 min |