

Tropical Ipa

- Gravity **18.4 BLG**
- ABV ---
- IBU **120**
- SRM **5**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **63 C**, Time **50 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **50 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **11.8 liter(s)** of **76C** water or to achieve **25.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|--------------|-------|-----|
| Grain | Viking Pale Ale malt | 4 kg (57.1%) | 80 % | 5 |
| Grain | Rahr - Premium Pilsner Malt | 2 kg (28.6%) | 80 % | 4 |
| Grain | Pszeniczny | 1 kg (14.3%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 30 g | 60 min | 14.7 % |
| Boil | Chinook | 30 g | 60 min | 11.8 % |
| Boil | Centennial | 20 g | 60 min | 7.8 % |
| Aroma (end of boil) | Columbus/Tomahawk/Zeus | 20 g | 15 min | 14.7 % |
| Aroma (end of boil) | Chinook | 20 g | 15 min | 11.8 % |
| Aroma (end of boil) | Centennial | 20 g | 15 min | 7.8 % |
| Aroma (end of boil) | Citra | 15 g | 15 min | 12 % |
| Dry Hop | Citra | 10 g | 4 day(s) | 12 % |
| Dry Hop | Centennial | 10 g | 4 day(s) | 10.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|-------------|-------------|---------------|-------------------|
| Safale US-05 | Ale | Dry | 12 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------|---------------|----------------|-------------|
| Spice | Curacao | 10 g | Boil | 5 min |