

Tropical IPA

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **47**
- SRM **10.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **17.3 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **12.8 liter(s)**
- Total mash volume **17.9 liter(s)**

Steps

- Temp **66 C**, Time **60 min**

Mash step by step

- Heat up **12.8 liter(s)** of strike water to **75.2C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **9.6 liter(s)** of **76C** water or to achieve **17.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3.3 kg (64.7%) | 80 % | 5 |
| Grain | Strzegom Pszeniczny | 1 kg (19.6%) | 81 % | 6 |
| Grain | Strzegom Karmel 150 | 0.4 kg (7.8%) | 75 % | 150 |
| Grain | Płatki owsiane | 0.4 kg (7.8%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|----------|--------|----------|------------|
| Boil | lunga | 22 g | 60 min | 11 % |
| Boil | Oktawia | 15 g | 30 min | 7.1 % |
| Boil | Izabella | 10 g | 10 min | 5 % |
| Boil | Amarillo | 5 g | 10 min | 7.1 % |
| Whirlpool | Izabella | 10 g | 0 min | 5 % |
| Whirlpool | Amarillo | 15 g | 0 min | 7.1 % |
| Whirlpool | Mosaic | 10 g | 0 min | 10.4 % |
| Dry Hop | Izabella | 30 g | 4 day(s) | 5 % |
| Dry Hop | Amarillo | 30 g | 4 day(s) | 7.1 % |
| Dry Hop | Mosaic | 40 g | 4 day(s) | 10.4 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|-------------|-------------|---------------|-------------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|---------------------------|---------------|----------------|-------------|
| Spice | skórka i sok z pomarańczy | 50 g | Secondary | 4 day(s) |