

Tropical APA

- Gravity **16.6 BLG**
- ABV **7 %**
- IBU **77**
- SRM **7.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **65 min**
- Evaporation rate **10 %/h**
- Boil size **27.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.8 liter(s)**
- Total mash volume **29 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **21.8 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **10 min** at **75C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **27.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 4 kg (55.1%) | 80 % | 5 |
| Grain | Viking Wheat Malt | 2 kg (27.5%) | 83 % | 5 |
| Grain | Caramel/Crystal Malt - 120L | 0.26 kg (3.6%) | 72 % | 150 |
| Grain | Płatki owsiane | 1 kg (13.8%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|----------|------------|
| Boil | Magnum | 30 g | 50 min | 11.5 % |
| Boil | Chinook | 30 g | 40 min | 13 % |
| Aroma (end of boil) | Falconer's Flight | 30 g | 15 min | 10 % |
| Aroma (end of boil) | Cashmere | 30 g | 10 min | 6.7 % |
| Whirlpool | Falconer's Flight | 30 g | 0 min | 10 % |
| Dry Hop | Citra | 20 g | 7 day(s) | 12 % |
| Dry Hop | Falconer's Flight | 30 g | 7 day(s) | 70 % |
| Dry Hop | Cashmere | 30 g | 7 day(s) | 6.7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-------|-----|-------|--------|-----|
| US-05 | Ale | Slant | 250 ml | --- |
|-------|-----|-------|--------|-----|

Extras

| Type | Name | Amount | Use for | Time |
|--------|--------|--------|-----------|-----------|
| Flavor | Ananas | 2000 g | Secondary | 10 day(s) |