

IPA

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **49**
- SRM **4.4**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.9 liter(s)**
- Total mash volume **25.2 liter(s)**

Steps

- Temp **65 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **18.9 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **45 min** at **65C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **15.1 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3.5 kg (55.6%) | 80 % | 5 |
| Grain | Viking Pilsner malt | 1.3 kg (20.6%) | 82 % | 4 |
| Grain | Słód pszeniczny Bestmalz | 1 kg (15.9%) | 82 % | 5 |
| Grain | Płatki owsiane | 0.5 kg (7.9%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil | Simcoe | 25 g | 60 min | 13.2 % |
| Aroma (end of boil) | Chinook | 20 g | 15 min | 13 % |
| Aroma (end of boil) | Simcoe | 25 g | 5 min | 13.2 % |
| Whirlpool | Simcoe | 25 g | 0 min | 13.2 % |
| Dry Hop | Simcoe | 50 g | 3 day(s) | 10 % |
| Dry Hop | Citra | 100 g | 3 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------|------|--------|--------|------------------|
| FM53 Voss kveik | Ale | Liquid | 300 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|--------|---------|-------|
| Water Agent | Gips | 4 g | Mash | --- |
| Water Agent | Chlorek wapnia | 4 g | Mash | --- |
| Water Agent | Witamina C | 2 g | Boil | 5 min |