

Black IIPA

- Gravity **18 BLG**
- ABV **7.7 %**
- IBU **123**
- SRM **27.4**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **10 %**
- Size with trub loss **12 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.3 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **2 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **14.7 liter(s)**

Steps

- Temp **65 C**, Time **90 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **9.8 liter(s)** of strike water to **76.2C**
- Add grains
- Keep mash **90 min** at **65C**
- Keep mash **5 min** at **75C**
- Sparge using **9.4 liter(s)** of **76C** water or to achieve **14.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|-----------------|-------|------|
| Grain | Viking Pale Ale malt | 2 kg (40.9%) | 80 % | 5 |
| Grain | Viking Vienna Malt | 2 kg (40.9%) | 79 % | 7 |
| Grain | Viking - Caramel 30 | 0.5 kg (10.2%) | 70 % | 30 |
| Grain | Castle Malting - Cafe Light | 0.27 kg (5.5%) | 70 % | 250 |
| Grain | Fawcett - Black | 0.125 kg (2.6%) | 70 % | 1400 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|-----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 15 g | 45 min | 14 % |
| Boil | Bravo | 15 g | 45 min | 14.1 % |
| Boil | Columbus/Tomahawk/Zeus | 15 g | 15 min | 14 % |
| Boil | Bravo | 35 g | 15 min | 14.1 % |
| Boil | Columbus/Tomahawk/Zeus | 20 g | 5 min | 10.6 % |
| Dry Hop | Azacca | 50 g | 14 day(s) | 14 % |
| Dry Hop | Lemon drop | 50 g | 14 day(s) | 4.6 % |
| Dry Hop | Jaryllo | 50 g | 14 day(s) | 15 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|-------------|-------------|---------------|-------------------|
| Safale US-05 | Ale | Slant | 1000 ml | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|--------------------|---------------|----------------|-------------|
| Spice | Wiórki po burbonie | 100 g | Secondary | 14 day(s) |
| Spice | Wiórki po sherry | 100 g | Secondary | 14 day(s) |