

#022 Black IPA

- Gravity **16.8 BLG**
- ABV **7.1 %**
- IBU **63**
- SRM **27.3**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **20 %**
- Size with trub loss **12 liter(s)**
- Boil time **60 min**
- Evaporation rate **16 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **71 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.6 liter(s)**
- Total mash volume **16.8 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **12.6 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **10 min** at **78C**
- Sparge using **6.8 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3.5 kg (83.1%) | 80 % | 5 |
| Grain | Platki owsiane | 0.33 kg (7.8%) | 85 % | 3 |
| Grain | Weyermann - Chocolate Wheat | 0.17 kg (4%) | 74 % | 788 |
| Grain | Weyermann - Chocolate Rye | 0.13 kg (3.1%) | 20 % | 493 |
| Grain | Weyermann - Carafa II | 0.08 kg (1.9%) | 70 % | 837 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------|--------|----------|------------|
| Boil | Simcoe | 12.5 g | 60 min | 13.2 % |
| Boil | Citra | 8.5 g | 10 min | 12 % |
| Aroma (end of boil) | Mosaic | 16.5 g | 10 min | 10 % |
| Whirlpool | Simcoe | 30 g | 12 min | 13.2 % |
| Whirlpool | Citra | 16.5 g | 12 min | 12 % |
| Dry Hop | Simcoe | 35 g | 3 day(s) | 13.2 % |
| Dry Hop | Citra | 30 g | 3 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|-------------|-------------|---------------|-------------------|
| US-05 | Ale | Slant | 200 ml | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------|---------------|----------------|-------------|
| Fining | whirfloc T | 1.25 g | Boil | 10 min |