

BLACK VIP

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **80**
- SRM **24.9**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **7 %**
- Size with trub loss **24.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **22 %/h**
- Boil size **32.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.6 liter(s)**
- Total mash volume **28.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **21.6 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **32.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 5 kg (69.4%) | 80 % | 5 |
| Grain | Strzegom Monachijski typ I | 1 kg (13.9%) | 79 % | 16 |
| Grain | Carafa III | 0.45 kg (6.3%) | 70 % | 1034 |
| Grain | Pszeniczny | 0.4 kg (5.6%) | 85 % | 4 |
| Grain | Cara-Pils/Dextrine | 0.35 kg (4.9%) | 72 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 25 g | 60 min | 15.5 % |
| Boil | Mosaic | 25 g | 20 min | 12 % |
| Boil | Simcoe | 25 g | 20 min | 13.2 % |
| Boil | Mosaic | 25 g | 7 min | 12 % |
| Boil | Simcoe | 25 g | 7 min | 13.2 % |
| Dry Hop | Mosaic | 50 g | 7 day(s) | 12 % |
| Dry Hop | Simcoe | 50 g | 7 day(s) | 13.2 % |
| Dry Hop | Amarillo | 50 g | 7 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------------------------|-------------|-------------|---------------|-------------------|
| Mangrove Jack's M44 US West Coast | Ale | Dry | 11 g | Mangrove Jack's |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------|---------------|----------------|-------------|
| Water Agent | gips | 5 g | Mash | 60 min |
| Fining | mech | 5 g | Boil | 15 min |