

#74 Black IPA

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **44**
- SRM **25.4**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **3 %**
- Size with trub loss **20.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.7 liter(s)**
- Total mash volume **19.6 liter(s)**

Steps

- Temp **66 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **14.7 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **10 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **16 liter(s)** of **76C** water or to achieve **25.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 4 kg (81.6%) | 80 % | 5 |
| Grain | Platki owsiane | 0.4 kg (8.2%) | 60 % | 3 |
| Grain | Weyermann - Carafa II | 0.5 kg (10.2%) | 70 % | 837 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------|--------|----------|------------|
| Boil | Talus | 40 g | 60 min | 7.9 % |
| Boil | Talus | 30 g | 10 min | 7.9 % |
| Boil | Talus | 30 g | 0 min | 7.9 % |
| Dry Hop | Talus | 100 g | 7 day(s) | 7.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|--------|------------------|
| FM52 Amerykański Sen | Ale | Liquid | 35 ml | Fermentum Mobile |