

Black IPA - Mosaic & Amarillo

- Gravity **17.5 BLG**
- ABV **7.5 %**
- IBU **52**
- SRM **29.1**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **26.3 liter(s)**
- Total mash volume **33.8 liter(s)**

Steps

- Temp **61 C**, Time **60 min**
- Temp **70 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **26.3 liter(s)** of strike water to **66.8C**
- Add grains
- Keep mash **60 min** at **61C**
- Keep mash **20 min** at **70C**
- Keep mash **5 min** at **78C**
- Sparge using **9 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|---------------|-------|------|
| Grain | Pilzneński | 6 kg (77.9%) | 81 % | 4 |
| Grain | Carafa III special | 0.5 kg (6.5%) | 70 % | 1034 |
| Grain | caragold | 0.5 kg (6.5%) | 78 % | 120 |
| Grain | Płatki owsiane / jęczmienne | 0.5 kg (6.5%) | 85 % | 3 |
| Sugar | cukier brązowy | 0.2 kg (2.6%) | --- % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------|--------|----------|------------|
| Aroma (end of boil) | Enigma (AUS) | 30 g | 20 min | 16.5 % |
| Dry Hop | Mosaic | 30 g | 7 day(s) | 12.6 % |
| Dry Hop | Amarillo | 30 g | 7 day(s) | 9.8 % |
| Boil | Chinook | 30 g | 60 min | 11.1 % |
| w 75°C 20min | | | | |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-----------------|--------|---------|--------|
| Fining | whirloc | 1.25 g | Boil | 15 min |
| Water Agent | gips piwowarski | 4 g | Mash | 60 min |
| Flavor | cukier brązowy | 200 g | Boil | 15 min |