

Czarna Korona Mołdawii

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **47**
- SRM **49.5**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.5 liter(s)**
- Total mash volume **28.7 liter(s)**

Steps

- Temp **61 C**, Time **30 min**
- Temp **68 C**, Time **15 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **21.5 liter(s)** of strike water to **67.8C**
- Add grains
- Keep mash **30 min** at **61C**
- Keep mash **15 min** at **68C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **15.1 liter(s)** of **76C** water or to achieve **29.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|----------------|-------|------|
| Grain | Monachijski | 5 kg (69.8%) | 80 % | 16 |
| Grain | Pszenica prażona | 0.5 kg (7%) | 70 % | 1000 |
| Grain | Black Castlemalting | 0.12 kg (1.7%) | 55 % | 1350 |
| Grain | Pszeniczny Czekoladowy | 0.145 kg (2%) | 73 % | 1050 |
| Grain | Jęczmień prażony | 0.5 kg (7%) | 55 % | 1000 |
| Grain | Płatki owsiane | 0.5 kg (7%) | 85 % | 3 |
| Grain | Płatki jęczmienne | 0.4 kg (5.6%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-----------------------|--------|----------|------------|
| Boil | Pacific Jade | 35 g | 45 min | 13 % |
| Boil | Saaz (Czech Republic) | 28 g | 15 min | 4 % |
| Aroma (end of boil) | Hallertau Blanc | 20 g | 10 min | 7.6 % |
| Aroma (end of boil) | East Kent Goldings | 8 g | 10 min | 4.5 % |
| Dry Hop | Cascade | 30 g | 5 day(s) | 6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------------------------|------|------|--------|-----------------|
| Mangrove Jack's -M15 Empire Ale | Ale | Dry | 15 g | Mangrove Jack's |
| Safale US-05 | Ale | Dry | 15 g | Fermentis |