

1% black ipa dzika

- Gravity **7.1 BLG**
- ABV **2.7 %**
- IBU **36**
- SRM **14.8**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **5.5 liter(s)**
- Boil time **30 min**
- Evaporation rate **10 %/h**
- Boil size **6.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **2.1 liter(s)**
- Total mash volume **2.8 liter(s)**

Steps

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

Mash step by step

- Heat up **2.1 liter(s)** of strike water to **87.5C**
- Add grains
- Keep mash **60 min** at **78C**
- Sparge using **4.9 liter(s)** of **76C** water or to achieve **6.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|-----------------|--------|------|
| Grain | Heidelberg | 0.45 kg (63.4%) | 80.5 % | 2 |
| Grain | Weyermann - Carapils | 0.1 kg (14.1%) | 78 % | 4 |
| Grain | Pszeniczny | 0.05 kg (7%) | 85 % | 4 |
| Grain | płatki jęczmienne | 0.04 kg (5.6%) | 60 % | 4 |
| Grain | Carafa III | 0.05 kg (7%) | 70 % | 1034 |
| Sugar | cukier brązowy | 0.02 kg (2.8%) | 100 % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------|--------|--------|------------|
| Boil | Marynka | 1 g | 60 min | 10 % |
| Boil | Centennial | 1 g | 30 min | 10.5 % |
| Boil | Citra | 1 g | 30 min | 12 % |
| Boil | Citra | 1.5 g | 15 min | 12 % |
| Boil | Centennial | 1.5 g | 15 min | 10.5 % |
| Whirlpool | Citra | 3 g | 30 min | 12 % |
| Whirlpool | Centennial | 3 g | 30 min | 10.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-----|-----|-----------|
| Safale US-05 | Ale | Dry | 3 g | Fermentis |
|--------------|-----|-----|-----|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------------|--------|-----------|----------|
| Fining | WPC Waniliowe | 100 g | Secondary | 1 day(s) |
| Fining | Laktoza | 100 g | Secondary | 1 day(s) |
| Fining | Kreatyna | 100 g | Secondary | 1 day(s) |

Notes

- Dodatki na cichej na próbie
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