

## B-Day IPA v2

---

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **67**
- SRM **5.5**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.8 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

### Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **10.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **8.8 liter(s)** of **76C** water or to achieve **15.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Castle Pale Ale	3 kg (85.7%)	80 %	8
Grain	Płatki jęczmienne	0.5 kg (14.3%)	60 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	20 g	60 min	10.5 %
Boil	Chinook	20 g	15 min	10.5 %
Whirlpool	Citra	20 g	10 min	12 %
Whirlpool	Chinook	20 g	10 min	10.5 %
Dry Hop	Citra	30 g	3 day(s)	12 %
Dry Hop	Amarillo	30 g	3 day(s)	9.5 %
Dry Hop	Chinook	30 g	3 day(s)	13 %