

## PL IPA

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- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **57**
- SRM **4.5**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **25.2 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.6 liter(s)**
- Total mash volume **19.4 liter(s)**

### Steps

- Temp **67 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **14.6 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **25.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.2 kg (86.6%)	80 %	5
Grain	Strzegom Pszeniczny	0.4 kg (8.2%)	81 %	6
Grain	Karmelowy Jasny 30EBC	0.25 kg (5.2%)	75 %	30

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	60 min	11 %
Boil	Puławski	30 g	15 min	4.3 %
Boil	Cascade PL	50 g	10 min	5.2 %
Boil	Oktawia	30 g	10 min	7.1 %
Dry Hop	Cascade PL	50 g	6 day(s)	5.2 %
Dry Hop	Chinook	30 g	6 day(s)	13 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	Danstar