

## +100 IBU IPA

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- Gravity **21.1 BLG**
- ABV **9.4 %**
- IBU **148**
- SRM **7.7**
- Style **Imperial IPA**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **26.1 liter(s)**
- Total mash volume **34.8 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **26.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **7.9 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	6 kg (69%)	80 %	5
Grain	Strzegom Monachijski typ I	1.7 kg (19.5%)	79 %	16
Grain	Strzegom Pszeniczny	0.8 kg (9.2%)	81 %	6
Grain	Karmelowy Jasny 30EBC	0.2 kg (2.3%)	75 %	30

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	40 g	60 min	15.5 %
Boil	Cascade	40 g	20 min	6 %
Boil	Eureka!	30 g	10 min	18 %
Boil	Sorachi Ace	40 g	10 min	10 %
Aroma (end of boil)	Amarillo	35 g	20 min	9.5 %
Aroma (end of boil)	Centennial	40 g	20 min	10.5 %
Aroma (end of boil)	Eureka!	30 g	20 min	18 %
Dry Hop	Equinox	70 g	4 day(s)	13.1 %
Dry Hop	Centennial	40 g	4 day(s)	10.5 %

### Yeasts

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

<b>Name</b>	<b>Type</b>	<b>Form</b>	<b>Amount</b>	<b>Laboratory</b>
Mangrove Jack's M44 US West Coast	Ale	Slant	300 ml	Mangrove Jack's