

## AIPA III + earl grey

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- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **70**
- SRM **7.5**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **16.4 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **13 liter(s)**
- Total mash volume **16.7 liter(s)**

### Steps

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

### Mash step by step

- Heat up **13 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **7.1 liter(s)** of **76C** water or to achieve **16.4 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg (81.1%)	85 %	7
Grain	Monachijski	0.5 kg (13.5%)	80 %	16
Grain	Strzegom Karmel 150	0.1 kg (2.7%)	75 %	150
Grain	Pszeniczny	0.1 kg (2.7%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	15 min	12.3 %
Whirlpool	Citra	30 g	20 min	12.3 %
Boil	lunga	20 g	60 min	11 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	50 ml	Fermentum Mobile