

## AIPA #4

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- Gravity **14.5 BLG**
- ABV ---
- IBU **65**
- SRM **12.1**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **38 liter(s)**
- Trub loss **5 %**
- Size with trub loss **39.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **48.1 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **29.1 liter(s)**
- Total mash volume **38.8 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **29.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **76C**
- Sparge using **28.7 liter(s)** of **76C** water or to achieve **48.1 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	8.5 kg (87.6%)	85 %	7
Grain	Strzegom Karmel 150	0.7 kg (7.2%)	75 %	150
Grain	Rye, Flaked	0.5 kg (5.2%)	78.3 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	50 min	10 %
Boil	Marynka	50 g	30 min	9.5 %
Boil	Amarillo	50 g	15 min	9.5 %
Boil	Amarillo	50 g	1 min	9.5 %
Whirlpool	Amarillo	50 g	15 min	9.5 %
Dry Hop	Amarillo	50 g	4 day(s)	9.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	400 ml	Fermentis