

# AIPA 2019

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- Gravity **18.4 BLG**
- ABV **8 %**
- IBU **63**
- SRM **11.1**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.5 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 **68 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **1 min** at **78C**
- Sparge using **7.5 liter(s)** of **76C** water or to achieve **14.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.5 kg (37.5%)	80 %	5
Grain	Słód Caramunich Typ II Weyermann	0.5 kg (12.5%)	73 %	120
Grain	Pszeniczny	1 kg (25%)	85 %	4
Grain	Płatki owsiane	0.5 kg (12.5%)	85 %	3
Sugar	Cukier trzcinowy	0.5 kg (12.5%)	--- %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	El Dorado	20 g	60 min	15 %
Whirlpool	El Dorado	30 g	15 min	15 %
Dry Hop	El Dorado	50 g	3 day(s)	15 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Windsor Ale	Ale	Slant	150 ml	Danstar