

# American Pale Ale (Homebrewing 2020)

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **16**
- SRM **4.5**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **9 %**
- Size with trub loss **12 liter(s)**
- Boil time **60 min**
- Evaporation rate **16 %/h**
- Boil size **16 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.3 liter(s)**
- Total mash volume **11.9 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **1 min**

## Mash step by step

- Heat up **9.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **1 min** at **76C**
- Sparge using **9.4 liter(s)** of **76C** water or to achieve **16 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Malt - Pale Ale	2 kg (75.5%)	80 %	7
Grain	Viking Malt - Słod pszeniczny	0.5 kg (18.9%)	80 %	6
Grain	Viking Malt - Carabody	0.15 kg (5.7%)	80 %	8

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	10 g	60 min	6 %
Boil	Citra	25 g	1 min	12 %
Boil	Amarillo	25 g	1 min	9.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	200 ml	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Finning	Whirfloc	1 g	Boil	5 min