

# American IPA v3 #82

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- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **64**
- SRM **6.7**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.5 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.3 liter(s)**

## Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.42 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **25.9 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **75 C**, Time **7 min**

## Mash step by step

- Heat up **20 liter(s)** of strike water to **70.4C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **7 min** at **75C**
- Sparge using **12.2 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking - pilzneński	1.135 kg (19.4%)	80 %	4
Grain	Mep©Ale	3.615 kg (61.8%)	82.1 %	5.5
Grain	Bruntal - pszeniczny	0.6 kg (10.3%)	83 %	5
Grain	Viking - monachijski I	0.3 kg (5.1%)	78 %	16
Grain	Chateau - cara gold	0.2 kg (3.4%)	78 %	120

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	22 g	60 min	14.7 %
Aroma (end of boil)	Columbus	25 g	15 min	12.4 %
Aroma (end of boil)	Centennial	25 g	10 min	9.5 %
Aroma (end of boil)	Simcoe	25 g	5 min	13.2 %
Aroma (end of boil)	Citra	26.5 g	1 min	13.5 %
Dry Hop	Centennial	30 g	5 day(s)	9.5 %
Dry Hop	Amarillo	30 g	5 day(s)	8.8 %
Dry Hop	Simcoe	30 g	5 day(s)	13.2 %

## Yeasts

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

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Slant	150 ml	Fermentum Mobile

### Extras

Type	Name	Amount	Use for	Time
Water Agent	gips piwowarski	2 g	Mash	---
Water Agent	chlorek wapnia [ml]	3.44 g	Mash	---
Water Agent	kwas mlekowy 80% [ml]	3.72 g	Mash	---
Water Agent	sól epsom	1.5 g	Mash	---
Fining	mech irlandzki	3 g	Boil	5 min