

# ipa

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **43**
- SRM **4**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **26.9 liter(s)**

## Mash information

- Mash efficiency **96 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

## Steps

- Temp **51 C**, Time **15 min**
- Temp **67 C**, Time **60 min**

## Mash step by step

- Heat up **14 liter(s)** of strike water to **55.4C**
- Add grains
- Keep mash **15 min** at **51C**
- Keep mash **60 min** at **67C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **26.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	4 kg (100%)	80 %	7

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	10 g	40 min	13.3 %
Boil	Cascade PL	10 g	40 min	7.3 %
Boil	Chinook	10 g	20 min	13.3 %
Boil	Cascade PL	10 g	20 min	7.3 %
Boil	Chinook	10 g	10 min	13.3 %
Boil	Cascade PL	10 g	10 min	7.3 %
Boil	Lemon drop	30 g	5 min	6 %