

# Mandarina Bavaria IPA

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **44**
- SRM **4**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.8 liter(s)**
- Total mash volume **11.8 liter(s)**

## Steps

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

## Mash step by step

- Heat up **8.8 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **9.3 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.4 kg (81.6%)	80 %	5
Grain	Viking Pale Ale malt	0.24 kg (8.2%)	80 %	5
Grain	Płatki owsiane	0.3 kg (10.2%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mandarina Bavaria	15 g	60 min	10 %
Boil	Mandarina Bavaria	15 g	10 min	10 %
Boil	Mandarina Bavaria	15 g	5 min	10 %
Boil	Mandarina Bavaria	15 g	0 min	10 %

## Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	6.6 g	Fermentis