

# 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  |