

Mandaryna Pale Ale 12°BLG

- Gravity **11.7 BLG**
- ABV ---
- IBU **58**
- SRM **6.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.9 liter(s)**
- Total mash volume **21.2 liter(s)**

Steps

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

Mash step by step

- Heat up **15.9 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **21.1 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (56.6%)	81 %	4
Grain	Viking Pale Ale malt	1.9 kg (35.8%)	80 %	5
Grain	Caramel/Crystal Malt - 30L	0.4 kg (7.5%)	75 %	59

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	13 g	60 min	13.5 %
Boil	Mandarina Bavaria	25 g	15 min	10 %
Boil	Mandarina Bavaria	50 g	10 min	10 %
Boil	Mandarina Bavaria	50 g	5 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale