

# Pale Ale

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- Gravity **11 BLG**
- ABV ---
- IBU **63**
- SRM ---
- Style **Extra Special/Strong Bitter (English Pale Ale)**

## 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 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **21.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale	4 kg (80%)	--- %	---
Grain	Monachijski	0.75 kg (15%)	--- %	---
Grain	Carmel Light	0.25 kg (5%)	--- %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Phoenix	38 g	60 min	10.9 %
Boil	Progress	50 g	10 min	10.9 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis US-05	Ale	Dry	11.5 g	---

## Notes

- Burzliwa 18-21\* 7-10 dni  
Cicha 18-21\* 7dni  
Aug 11, 2016, 7:48 AM