

# Arborio Ale

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **28**
- SRM **3.9**
- Style **American Pale Ale**

## 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 **60 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

## Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **45 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **45 min** at **72C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (85.7%)	81 %	4
Grain	Rice, arborio	0.5 kg (14.3%)	70 %	2

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zombie PH 2019	20 g	45 min	8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Lutra OYL-071	Ale	Slant	150 ml	Omega

## Extras

Type	Name	Amount	Use for	Time
Water Agent	chlerek wapnia	4 g	Mash	60 min
Fining	whirflock	1 g	Boil	3 min