

covidowe

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **51**
- SRM **6.1**
- 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 **24 liter(s)**
- Total mash volume **32 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

Mash step by step

- Heat up **24 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **72C**
- Sparge using **15.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Castle Pale Ale	7 kg (87.5%)	80 %	8
Grain	Pszeniczny	1 kg (12.5%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Columbus/Tomahawk/Zeus	50 g	---	15.5 %
Boil	Columbus/Tomahawk/Zeus	50 g	15 min	15.5 %
Boil	Mosaic	50 g	5 min	11.3 %
Boil	Citra	50 g	5 min	12 %
Boil	Citra	50 g	1 min	12 %
Boil	Mosaic	50 g	1 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	500 ml	Fermentum Mobile