

Modern drinking

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **69**
- SRM **4.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **1.8 liter(s) / kg**
- Mash size **10.3 liter(s)**
- Total mash volume **16.1 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **79 C**, Time **1 min**

Mash step by step

- Heat up **10.3 liter(s)** of strike water to **81.4C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **79C**
- Sparge using **20.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (87%)	81 %	4
Grain	Carabelge	0.25 kg (4.3%)	80 %	30
Grain	Płatki owsiane	0.5 kg (8.7%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	40 g	60 min	11 %
Boil	Mosaic	15 g	30 min	11 %
Boil	Mosaic	20 g	15 min	11 %
Aroma (end of boil)	Mosaic	10 g	0 min	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	50 ml	Fermentis