

Warمیński urlop

- Gravity **17.3 BLG**
- ABV **7.4 %**
- IBU **41**
- SRM **5.3**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.2 liter(s)**
- Total mash volume **13.6 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **70 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **10.2 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **5.9 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	2 kg (58.8%)	81 %	6
Grain	Briess - Wheat Malt, White	1 kg (29.4%)	85 %	5
Grain	Płatki owsiane	0.2 kg (5.9%)	85 %	3
Grain	Płatki owsiane	0.2 kg (5.9%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	10 g	60 min	10 %
Boil	Citra	10 g	30 min	12 %
First Wort	Citra	5 g	15 min	12 %
Dry Hop	Mosaic	40 g	3 day(s)	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	200 ml	Safale

Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

Type	Name	Amount	Use for	Time
Flavor	laktoza	300 g	Boil	10 min
Flavor	mango	1000 g	Primary	10 day(s)
Flavor	wiśnia	500 g	Primary	10 day(s)