

# Puławski IPA

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **45**
- SRM **4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.12 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.9 liter(s)**

## Steps

- Temp **68 C**, Time **670 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **75.7C**
- Add grains
- Keep mash **670 min** at **68C**
- Keep mash **1 min** at **78C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (93.4%)	80 %	5
Grain	Pszeniczny	0.318 kg (6.6%)	85 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Puławski	25 g	30 min	8.9 %
Boil	Puławski	25 g	15 min	8.9 %
Boil	Puławski	25 g	10 min	8.9 %
Boil	Puławski	25 g	5 min	8.9 %
Boil	Puławski	25 g	0 min	8.9 %
Dry Hop	Puławski	50 g	5 day(s)	8.9 %
Dry Hop	Puławski	50 g	3 day(s)	8.9 %

## Yeasts

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

## Extras

Type	Name	Amount	Use for	Time
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Fining	Mech Irlandzki	4 g	Boil	15 min
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## Notes

- Zacieranie całonocne 23:00- 10:00.  
*Jan 21, 2017, 10:36 AM*