

Ipka

- Gravity **17.1 BLG**
- ABV **7.3 %**
- IBU **40**
- SRM **7.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **15.6 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **8.6 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (96.2%)	80 %	5
Grain	Strzegom Karmel 150	0.2 kg (3.8%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	11 %
Boil	Marynka	15 g	60 min	10 %
Aroma (end of boil)	Lublin (Lubelski)	30 g	2 min	4 %
Dry Hop	Sybilla	30 g	10 day(s)	3.5 %
Dry Hop	Lublin (Lubelski)	20 g	10 day(s)	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Us-05	Ale	Slant	800 ml	1pokolenie