

Warsztat 20.09. - Kraków

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **33**
- SRM **4.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **18.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **14 %/h**
- Boil size **24.3 liter(s)**

Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.1 liter(s)**
- Total mash volume **18.8 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **14.1 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **14.9 liter(s)** of **76C** water or to achieve **24.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.5 kg (74.5%)	80 %	4
Grain	Strzegom Monachijski typ I	1 kg (21.3%)	79 %	16
Grain	Pszeniczny	0.2 kg (4.3%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	27 g	60 min	8.8 %
Boil	Tradition	10 g	15 min	5 %
Boil	Saaz (Czech Republic)	10 g	15 min	3.5 %
Aroma (end of boil)	Tradition	20 g	2 min	5 %
Aroma (end of boil)	Saaz (Czech Republic)	8 g	2 min	3.5 %
Dry Hop	Tradition	15 g	2 day(s)	5 %

Yeasts

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