

wędzone

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **22**
- SRM **7.7**
- Style **Belgian Pale Ale**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

Steps

- Temp **65 C**, Time **25 min**
- Temp **72 C**, Time **45 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16.5 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **25 min** at **65C**
- Keep mash **45 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **19.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Monachijski Ciemny Steinbach	2 kg (33.3%)	80 %	30
Grain	Briess - Pale Ale Malt	3 kg (50%)	80 %	7
Grain	Słód Wędzony Steinbach	0.5 kg (8.3%)	80 %	5
Sugar	glukoza	0.5 kg (8.3%)	100 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	45 min	9 %
Aroma (end of boil)	Lublin (Lubelski)	25 g	10 min	4 %

Yeasts

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