

Polskie

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **32**
- SRM **9**
- Style **Blonde Ale**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 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 **69 C**, Time **70 min**

Mash step by step

- Heat up **15.6 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **70 min** at **69C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4.6 kg (88.5%)	81 %	4
Grain	Karmelowy Pszeniczny Strzegom	0.6 kg (11.5%)	79 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	12 %
Aroma (end of boil)	Lublin (Lubelski)	25 g	15 min	3 %
Aroma (end of boil)	Lublin (Lubelski)	50 g	5 min	3 %
Aroma (end of boil)	Jakiś nie opsany	20 g	1 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	---