

Polskie 13blg

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **41**
- SRM **4.8**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **80 min**
- Evaporation rate **13 %/h**
- Boil size **26.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **66 C**, Time **40 min**
- Temp **73 C**, Time **45 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **40 min** at **66C**
- Keep mash **45 min** at **73C**
- Keep mash **10 min** at **78C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (80%)	81 %	4
Grain	Strzegom Monachijski typ I	1 kg (20%)	79 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	50 min	10 %
Boil	Magnat	17 g	50 min	11.2 %
Aroma (end of boil)	Lublin (Lubelski)	15 g	10 min	4 %
Aroma (end of boil)	Saaz (Czech Republic)	15 g	10 min	4.5 %

Yeasts

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

Notes

- Fermentacja:

Burzliwa - 18°C - ok. 7 dni
Cicha - 16°C - ok. 2tyg. (14-16dni)

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

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