

Polskie ale podwójnie chmielone BIAB

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **47**
- SRM **3.6**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **6 liter(s) / kg**
- Mash size **30 liter(s)**
- Total mash volume **35 liter(s)**

Steps

- Temp **67 C**, Time **60 min**

Mash step by step

- Heat up **30 liter(s)** of strike water to **70.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **1.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód Pilsner® 2,5-4,5 EBC Weyermann	5 kg (100%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	60 min	13 %
Aroma (end of boil)	Marynka	30 g	5 min	8.6 %
Dry Hop	Lublin (Lubelski)	30 g	4 day(s)	3 %

Yeasts

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