

Oby nie wyszło bock'iem

- Gravity **16.6 BLG**
- ABV **7 %**
- IBU **25**
- SRM **15.4**
- Style **Traditional Bock**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **90 min**
- Evaporation rate **12 %/h**
- Boil size **13.6 liter(s)**

Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **9.9 liter(s)**
- Total mash volume **13 liter(s)**

Steps

- Temp **53 C**, Time **10 min**
- Temp **65 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **9.9 liter(s)** of strike water to **58.2C**
- Add grains
- Keep mash **10 min** at **53C**
- Keep mash **30 min** at **65C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **6.8 liter(s)** of **76C** water or to achieve **13.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Monachijski	1.5 kg (48.4%)	80 %	16
Grain	Strzegom Pilzneński	0.5 kg (16.1%)	80 %	4
Grain	Strzegom Wiedeński	0.5 kg (16.1%)	79 %	10
Grain	Red ale	0.5 kg (16.1%)	75 %	70
Grain	Caraaroma	0.1 kg (3.2%)	78 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	30 min	11.5 %
Boil	Lublin (Lubelski)	40 g	10 min	3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	150 ml	Fermentis

Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc	1.5 g	Boil	7 min

Notes

- Wysładzać w małym fermentorze
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