

Nie miała baba kłopotu

- Gravity **14 BLG**
- ABV ---
- IBU **71**
- SRM ---
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18.6 liter(s)**

Steps

- Temp **67 C**, Time **70 min**
- Temp **67 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **14 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **10 min** at **67C**
- Keep mash **70 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **16 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.7 kg (71.8%)	80 %	---
Grain	Strzegom Karmel 600	0.4 kg (7.8%)	68 %	---
Grain	Strzegom Czekoladowy jasny	0.35 kg (6.8%)	68 %	---
Grain	Jęczmień palony	0.2 kg (3.9%)	55 %	---
Sugar	Milk Sugar (Lactose)	0.5 kg (9.7%)	76.1 %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northdown	25 g	60 min	25 %

Yeasts

Name	Type	Form	Amount	Laboratory
Mauribrew Ale Y514	Ale	Dry	11 g	---