

Polski lager

- Gravity **10 BLG**
- ABV **4 %**
- IBU **20**
- SRM **3.5**
- Style **Classic American Pilsner**

Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **32.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **62 C**, Time **55 min**
- Temp **70 C**, Time **20 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **55 min** at **62C**
- Keep mash **20 min** at **70C**
- Sparge using **20.4 liter(s)** of **76C** water or to achieve **32.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (80%)	81 %	4
Grain	Żytni	0.5 kg (10%)	85 %	8
Grain	Strzegom Wiedeński	0.5 kg (10%)	79 %	10

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Nadwiślański	25 g	65 min	8 %
Aroma (end of boil)	Izabella	50 g	1 min	5 %
Whirlpool	Izabella	50 g	0 min	5.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
lalemand lager	Lager	Slant	300 ml	---