

Koncerniak Pioter company

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **16**
- SRM **3.7**
- Style **Standard American Lager**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **62 C**, Time **40 min**
- Temp **68 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	6 kg (100%)	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	8 g	60 min	13 %
Boil	Marynka	8 g	30 min	10 %
Boil	Lublin (Lubelski)	10 g	10 min	4 %
Whirlpool	Lublin (Lubelski)	10 g	0 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
s-189	Lager	Liquid	160 ml	---