

## #63 Lager Wiedeński

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **31**
- SRM **13.2**
- Style **Vienna Lager**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **4 %**
- Size with trub loss **25 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.6 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **24.7 liter(s)**

### Steps

- Temp **64 C**, Time **90 min**

### Mash step by step

- Heat up **19.2 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **90 min** at **64C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **29.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Malteurop Wiedeński	5 kg (91.2%)	79 %	10
Grain	Strzegom Karmel 150	0.185 kg (3.4%)	75 %	150
Grain	Caraaroma	0.3 kg (5.5%)	78 %	400

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	13.5 %
Boil	Lublin (Lubelski)	20 g	20 min	4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM30 Bohemska rapsodia	Lager	Slant	200 ml	Fermentum Mobile