

Polotmave

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **32**
- SRM **9.9**
- Style **Vienna Lager**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **18.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.6 liter(s)**
- Total mash volume **15.5 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **11.6 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **78C**
- Sparge using **10.8 liter(s)** of **76C** water or to achieve **18.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|-----------------|-------|-----|
| Grain | Pilzneński | 2.5 kg (64.5%) | 81 % | 4 |
| Grain | Munich Malt | 1 kg (25.8%) | 80 % | 18 |
| Grain | Vienna Malt | 0.18 kg (4.6%) | 78 % | 8 |
| Grain | Weyermann - Melanoiden Malt | 0.12 kg (3.1%) | 81 % | 53 |
| Grain | Strzegom Karmel 600 | 0.075 kg (1.9%) | 68 % | 601 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | Premiant | 15 g | 60 min | 9.93 % |
| Boil | Saaz (Czech Republic) | 30 g | 20 min | 4 % |
| Boil | Saaz (Czech Republic) | 25 g | 0 min | 4 % |

Yeasts

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

Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|-------------|-------------------|--------|---------|--------|
| Water Agent | Lactic Acid | 5 g | Mash | 60 min |
| Water Agent | CaCl ₂ | 5 g | Mash | 60 min |
| Fining | Whirlflock-T | 2.5 g | Boil | 10 min |