

Owsianka na mleku

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **15**
- SRM **35.1**
- Style **Oatmeal 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 **3.5 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **21.6 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 3.2 kg (66.7%) | 85 % | 7 |
| Grain | Płatki owsiane | 0.5 kg (10.4%) | 85 % | 3 |
| Grain | Weyermann - Caraamber | 0.3 kg (6.3%) | 75 % | 65 |
| Grain | Weyermann - Carafa I | 0.2 kg (4.2%) | 70 % | 690 |
| Grain | Jęczmień palony | 0.3 kg (6.3%) | 55 % | 985 |
| Grain | Weyermann - Carafa II | 0.3 kg (6.3%) | 70 % | 837 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | East Kent Goldings | 20 g | 55 min | 5.1 % |
| Boil | East Kent Goldings | 10 g | 20 min | 5.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |

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 |
|-------|---------|--------|---------|--------|
| Other | Laktoza | 500 g | Boil | 15 min |

Notes

- chyba zacierałem w zbyt wysokiej temp. bo piwo odfermentowało do 5.9 BLG
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