

smaki szpitalne

- Gravity **19.3 BLG**
- ABV **8.4 %**
- IBU **40**
- SRM **36.9**
- Style **Baltic Porter**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **10 %**
- Size with trub loss **25.3 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 **2.2 liter(s) / kg**
- Mash size **21.1 liter(s)**
- Total mash volume **30.7 liter(s)**

Steps

- Temp **50 C**, Time **1 min**
- Temp **55 C**, Time **5 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **50 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **21.1 liter(s)** of strike water to **56.8C**
- Add grains
- Keep mash **1 min** at **50C**
- Keep mash **5 min** at **55C**
- Keep mash **30 min** at **62C**
- Keep mash **50 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **18.9 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|------|
| Grain | Castle Pale Ale | 5 kg (52.1%) | 80 % | 8 |
| Grain | Strzegom Monachijski typ I | 1.5 kg (15.6%) | 79 % | 16 |
| Grain | Strzegom Monachijski typ II | 1 kg (10.4%) | 79 % | 22 |
| Grain | caramunich II | 1 kg (10.4%) | 80 % | 120 |
| Grain | Caraaroma | 0.7 kg (7.3%) | 78 % | 400 |
| Grain | Carafa III | 0.2 kg (2.1%) | 70 % | 1034 |
| Grain | Strzegom Czekoladowy ciemny | 0.2 kg (2.1%) | 68 % | 1200 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil | Marynka | 50 g | 60 min | 10 % |
| Boil | Lublin (Lubelski) | 30 g | 20 min | 4 % |

Yeasts

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

| Name | Type | Form | Amount | Laboratory |
|---------------|-------------|-------------|---------------|-------------------|
| safale w34/70 | Lager | Dry | 11 g | fermenstis |