

Drwal (brokreacja)

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **75**
- SRM **28.9**
- Style **American Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.9 liter(s)**
- Total mash volume **23.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **17.9 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **14.5 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|-----------------|-------|------|
| Grain | Viking Pale Ale malt | 3.29 kg (55.4%) | 80 % | 5 |
| Grain | Żytni | 1.12 kg (18.8%) | 85 % | 8 |
| Grain | Strzegom Monachijski typ II | 0.82 kg (13.9%) | 79 % | 22 |
| Grain | Carafa III | 0.24 kg (4%) | 70 % | 1034 |
| Grain | Karmelowy żytni Strzegom | 0.24 kg (4%) | 75 % | 150 |
| Grain | Fawcett - Pszeniczny Czekoladowy | 0.24 kg (4%) | 73 % | 1001 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|---------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 17.65 g | 45 min | 15.5 % |
| Boil | Citra | 17.65 g | 30 min | 12 % |
| Boil | Simcoe | 17.65 g | 30 min | 13.2 % |
| Boil | Citra | 17.65 g | 15 min | 12 % |
| Boil | Simcoe | 17.65 g | 15 min | 13.2 % |
| Dry Hop | Simcoe | 35.29 g | 7 day(s) | 13.2 % |
| Dry Hop | Citra | 35.29 g | 7 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|---------|------------|
| Safale US-05 | Ale | Dry | 13.53 g | Fermentis |

Notes

- 67st - słydy jasne
78st - słydy ciemne
chmienie na zimno w temp. 14-15 st.
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