

Czorny braggot

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **24**
- SRM **25.4**
- Style **Specialty Beer**

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 **10.7 liter(s)**
- Total mash volume **13.7 liter(s)**

Steps

- Temp **67 C**, Time **45 min**
- Temp **77 C**, Time **1 min**

Mash step by step

- Heat up **10.7 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **67C**
- Keep mash **1 min** at **77C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|----------------|---------------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 1.7 kg (32.4%) | 80 % | 5 |
| Grain | Oats, Flaked | 0.5 kg (9.5%) | 80 % | 2 |
| Grain | Briess - Rye Malt | 0.5 kg (9.5%) | 80 % | 7 |
| Liquid Extract | Miód Gryczany (Buckwheat Honey) | 2.2 kg (41.9%) | 70 % | 40 |
| Grain | Roasted Barley | 0.35 kg (6.7%) | 70 % | 1000 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil | Perle | 20 g | 50 min | 7 % |
| Boil | Perle | 30 g | 15 min | 7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|--------|------------|
| wyeast french saison | Ale | Liquid | 125 ml | wyeast |