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- Gravity **8.8 BLG**
- ABV **3.4 %**
- IBU **18**
- SRM **3.2**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **15.6 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **7.85 liter(s) / kg**
- Mash size **20.4 liter(s)**
- Total mash volume **23 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **62 C**, Time **60 min**
- Temp **72 C**, Time **25 min**
- Temp **77 C**, Time **10 min**

Mash step by step

- Heat up **20.4 liter(s)** of strike water to **51.9C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **60 min** at **62C**
- Keep mash **25 min** at **72C**
- Keep mash **10 min** at **77C**
- Sparge using **1.9 liter(s)** of **76C** water or to achieve **19.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------------|----------------|-------|-----|
| Grain | Pszeniczny | 2 kg (76.9%) | 85 % | 5 |
| Grain | Grodziski pszeniczny wędzony dębem | 0.5 kg (19.2%) | 80 % | 6 |
| Grain | Płatki pszeniczne | 0.1 kg (3.8%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil | Warrior | 4 g | 45 min | 14.7 % |
| Aroma (end of boil) | Fuggles | 4 g | 15 min | 6 % |
| Aroma (end of boil) | Warrior | 4 g | 15 min | 14.7 % |
| Aroma (end of boil) | Willamette | 2 g | 15 min | 5 % |
| Aroma (end of boil) | Willamette | 5 g | 7 min | 5 % |
| Aroma (end of boil) | Fuggles | 4 g | 7 min | 6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|----------------|-------|-----|--------|----------|
| Fermentis K-97 | Wheat | Dry | 11.5 g | lassafre |
|----------------|-------|-----|--------|----------|

Notes

- przerwa białkowa, żeby piwo nie było mętne? tak, ale nie długa, bo zmniejsza trwałość piany (płatki pszenne dodane po niej)
Mar 13, 2023, 6:40 PM