

Las w butelce (Forest Ale)

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **19**
- SRM **4.4**
- 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 **70 min**
- Evaporation rate **10 %/h**
- Boil size **24.6 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **21.8 liter(s)**

Steps

- Temp **50 C**, Time **15 min**
- Temp **68 C**, Time **50 min**
- Temp **79 C**, Time **1 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **53.8C**
- Add grains
- Keep mash **15 min** at **50C**
- Keep mash **50 min** at **68C**
- Keep mash **1 min** at **79C**
- Sparge using **11.6 liter(s)** of **76C** water or to achieve **24.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 3 kg (69%) | 85 % | 7 |
| Grain | Weyermann pszeniczny jasny | 0.8 kg (18.4%) | 80 % | 6 |
| Grain | Słód owsiany Fawcett | 0.3 kg (6.9%) | 61 % | 5 |
| Grain | Płatki pszeniczne | 0.25 kg (5.7%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil | Simcoe | 10 g | 60 min | 13.2 % |
| Boil | Izabella | 10 g | 25 min | 5.1 % |
| Boil | Simcoe | 40 g | 0 min | 13.2 % |
| Boil | Izabella | 70 g | 0 min | 5.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-33 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|------|------------------------------|--------|---------|-------|
| Herb | Pędy sosny | 200 g | Boil | 5 min |
| Herb | Pędy świerku | 150 g | Boil | 5 min |
| Herb | Klitoria ternateńska | 25 g | Boil | 5 min |
| Herb | Szafran (krokosz barwierski) | 25 g | Boil | 5 min |

Notes

- Szafran i klitoria do zabarwienia piwa na zielono.
Jun 5, 2021, 1:02 PM