

Earl grey APA

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **23**
- SRM **3.9**
- Style **American Pale Ale**

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 **13.7 liter(s)**
- Total mash volume **18.2 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **13.7 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|-----------------|-------|-----|
| Grain | Pale ale | 3.65 kg (80.2%) | 80 % | 4 |
| Grain | Płatki owsiane | 0.55 kg (12.1%) | 85 % | 3 |
| Grain | Monachijski | 0.2 kg (4.4%) | 80 % | 16 |
| Grain | Karmelowy Jasny 30EBC | 0.15 kg (3.3%) | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|---------|--------|--------|------------|
| Boil | Mosaic | 20 g | 50 min | 10 % |
| Boil | Cascade | 18 g | 10 min | 4.6 % |
| Whirlpool | Simcoe | 45 g | 0 min | 13.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|-----------|------------------|
| FM52 Amerykański Sen | Ale | Liquid | 181.82 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------|--------|-----------|----------|
| Flavor | Earl grey | 90 g | Secondary | 1 day(s) |

Notes

- Fermentacja w 18 stopniach.
Cicha 2x 10l
 1. Earl Grey 200% 50 g, + 50g Mosaic na 2 dni
 2. Earl Grey 150% 50 g, + 10g bergamotki + 50 g Mosaic

Wersja 2 intensywny dominujący aromat, nieco zbyt perfumowy. Docelowo zmniejszyć ilość bergamotki do 8g na 10 l
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