

IPA Menes

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **61**
- SRM **9**
- Style **American IPA**

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 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **23.2 liter(s)**

Steps

- Temp **53 C**, Time **15 min**
- Temp **67 C**, Time **120 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **58.5C**
- Add grains
- Keep mash **15 min** at **53C**
- Keep mash **120 min** at **67C**
- Keep mash **10 min** at **72C**
- Keep mash **2 min** at **78C**
- Sparge using **13.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Castle Pale Ale | 5.3 kg (91.4%) | 80 % | 8 |
| Grain | Aroma CastleMalting | 0.5 kg (8.6%) | 78 % | 100 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 35 g | 60 min | 15.5 % |
| Boil | Challenger | 15 g | 15 min | 7 % |
| Boil | Fuggles | 15 g | 3 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------|-----------------|--------|---------|--------|
| Other | gips piwowarski | 4 g | Boil | 60 min |

Notes

- ABV (Alcohol By Volume, ang. alkohol objętościowo)

International Bitterness Units - międzynarodowe jednostki gorycz

Standard Reference Method - System zapisu koloru piwa. 0 - 4 bardzo jasny, 4 - 7 złoty, 7 - 11 bursztynowy, 11 - 14 czerwony, 18 - 25 brązowy, 25+ czarny.

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