

Terra nullius 1.0

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **34**
- SRM **6.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **18 %**
- Size with trub loss **13 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **17 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.4 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **15.5 liter(s)**

Steps

- Temp **65 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **80 C**, Time **1 min**

Mash step by step

- Heat up **12 liter(s)** of strike water to **71.6C**
- Add grains
- Keep mash **45 min** at **65C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **80C**
- Sparge using **8.5 liter(s)** of **76C** water or to achieve **17 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|-----------------|-------|-----|
| Grain | Weyermann - Wiedeński | 3 kg (85.1%) | 80 % | 8 |
| Grain | Weyermann - Zakwaszający | 0.125 kg (3.5%) | 80 % | 5 |
| Grain | Weyermann - Carahell | 0.4 kg (11.3%) | 80 % | 25 |

Słód karmelowy dodany na drugą przerwę.

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------------|--------|----------|------------|
| Boil | Columbus - Zeus (USA - 2018) | 10 g | 60 min | 15.2 % |
| Boil | Ahtanum (USA - 2019) | 33 g | 15 min | 3.6 % |
| Boil | Ahtanum (USA - 2019) | 33 g | 1 min | 3.6 % |
| Dry Hop | Ahtanum (USA - 2019) | 34 g | 2 day(s) | 3.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|---|---------|-----------|----------|
| Other | Woda zaciernaie (olsztyńska - Nagórki) | 12000 g | Mash | 61 min |
| Other | Woda wysładzanie (olsztyńska - Nagórki) | 10000 g | Mash | 51 min |
| Water Agent | Kwasfosforowy (woda do wysładzania) | 4 g | Mash | 51 min |
| Water Agent | Witamina C | 2 g | Secondary | 7 day(s) |
| Fining | Whirlfolc | 1 g | Boil | 5 min |

Notes

- Terra nullius to łacińskie wyrażenie oznaczające „ziemię niczyją”.
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