

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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