

MICRO IPA 3

- Gravity **8.3 BLG**
- ABV **3.2 %**
- IBU **16**
- SRM **2.8**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.3 liter(s)**
- Boil time **40 min**
- Evaporation rate **15 %/h**
- Boil size **28.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.3 liter(s)**
- Total mash volume **15 liter(s)**

Steps

- Temp **52 C**, Time **5 min**
- Temp **67 C**, Time **15 min**
- Temp **72 C**, Time **50 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **11.3 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **5 min** at **52C**
- Keep mash **15 min** at **67C**
- Keep mash **50 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **20.6 liter(s)** of **76C** water or to achieve **28.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann -Eraclea	1.9 kg (50.7%)	81 %	4
Grain	Weyermann - Carapils	0.55 kg (14.7%)	75 %	4
Grain	Płatki pszeniczne	0.55 kg (14.7%)	70 %	3
Grain	Płatki owsiane	0.55 kg (14.7%)	70 %	3
Grain	Weyermann - Żytni	0.2 kg (5.3%)	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra (USA)	10 g	40 min	12.1 %
Aroma (end of boil)	Citra (USA)	60 g	1 min	12.1 %
Dry Hop	Strata (USA)	20 g	8 day(s)	14.5 %
Po 48h od zadania drożdży.				
Dry Hop	Talus (USA)	20 g	3 day(s)	7.4 %
Po 48h od zadania drożdży.				
Dry Hop	Citra (USA)	20 g	---	13.6 %

Po 48h od zadania drożdży.				
Dry Hop	Strata (USA)	40 g	3 day(s)	14.5 %
2dni+3dni CC				
Dry Hop	Talus (USA)	40 g	---	7.4 %
2dni+3dni CC				
Dry Hop	Citra (USA)	40 g	---	13.6 %
2dni+3dni CC				

Yeasts

Name	Type	Form	Amount	Laboratory
Lallemand-LalBrew London	Ale	Dry	11 g	---
FERMENTACJA 4 DNI 18--20°C BEZ CIŚNIENIA,POTEM 22°C- 12 PSI				

Extras

Type	Name	Amount	Use for	Time
Water Agent	witamina C	3 g	Bottling	---
Other	łuska ryżowa	150 g	Mash	10 min

Notes

- Woda RO modyfikowana do wartości w PPM
Ca-75
Mg-5
Na-10
Cl-75
S04-150
HCO3-0
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