

MICRO IPA 4

- Gravity **10 BLG**
- ABV **4 %**
- IBU **29**
- SRM **3.5**
- 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 **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

Steps

- Temp **52 C**, Time **5 min**
- Temp **67 C**, Time **15 min**
- Temp **72 C**, Time **40 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **5 min** at **52C**
- Keep mash **15 min** at **67C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **19.3 liter(s)** of **76C** water or to achieve **28.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Barke Pilsner	1.8 kg (40.9%)	81 %	5
Grain	Weyermann - Pszeniczny	1.8 kg (40.9%)	80 %	5
Grain	Płatki owsiane	0.5 kg (11.4%)	70 %	3
Grain	Weyermann - Żytni	0.3 kg (6.8%)	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Azacca (USA)	20 g	10 min	10.6 %
Whirlpool	Strata (USA)	30 g	15 min	14.5 %
80°C				
Whirlpool	Azacca (USA)	30 g	15 min	10.6 %
80°C				
Dry Hop	Strata (USA)	70 g	3 day(s)	14.5 %
3dni+3dni CC				
Dry Hop	Azacca (USA)	50 g	3 day(s)	10.6 %

3dni+3dni CC

Yeasts

Name	Type	Form	Amount	Laboratory
Lallemand-LalBrew Windsor Ale	Ale	Dry	11 g	---
FERMENTACJA 20-22°C- SAMO DO 12 PSI				

Extras

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

Notes

- Woda RO modyfikowana do wartości w PPM
Ca-100
Mg-5
Na-15
Cl-175
S04-60
HCO3-0
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