

## Pan IPANi 3.0

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **42**
- SRM **4.5**
- Style **White IPA**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **80 min**
- Evaporation rate **13 %/h**
- Boil size **34 liter(s)**

### Mash information

- Mash efficiency **86 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **30.8 liter(s)**

### Steps

- Temp **50 C**, Time **5 min**
- Temp **64 C**, Time **30 min**
- Temp **73 C**, Time **40 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **23.1 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **5 min** at **50C**
- Keep mash **30 min** at **64C**
- Keep mash **40 min** at **73C**
- Keep mash **5 min** at **78C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **34 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Wiking Malt	3.3 kg (42.9%)	79 %	6
Grain	Pszenica niesłodowana	1.5 kg (19.5%)	70 %	2
Temperatura kleikowania pszenicy: 58-64 °C. Pszenicę wcześniej skleikować.				
Grain	Pszeniczny jasny 3,5-6	1 kg (13%)	82 %	5
Grain	Carapils Weyermann	0.6 kg (7.8%)	78 %	4
Grain	Płatki owsiane błyskawiczne	1.3 kg (16.9%)	70 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	8.8 %
Aroma (end of boil)	Cascade PL	40 g	10 min	8 %
Aroma (end of boil)	Centennial	50 g	0 min	9.5 %
Dry Hop	Cascade PL	70 g	10 day(s)	8 %

Zapach multliwitaminy Na pierwszy fermentor				
Dry Hop	Mosaic	70 g	10 day(s)	10 %
Nafta, Owoce czerwone, jagodowe Na drugi fermentor				

## Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Slant	300 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Water Agent	Gips piwowarski	5 g	Mash	1 min
Other	Chłodnica	1 g	Boil	20 min
Other	Łuska ryżowa	150 g	Mash	70 min
Water Agent	Kwas askorbinowy	5 g	Bottling	---

## Notes

- Dekokcja do 64°C  
*May 16, 2020, 4:45 PM*
- Dobrze napowietrzyć brzeczke!!  
*May 16, 2020, 4:45 PM*
- Woda RO + Kran 25:75  
*May 16, 2020, 4:45 PM*