

Made in Poland IPA

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **65**
- SRM **4.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.6 liter(s)**
- Total mash volume **19.4 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.2 kg (86.6%)	80 %	5
Grain	Pszeniczny	0.4 kg (8.2%)	85 %	4
Grain	Karmelowy Jasny 30EBC	0.25 kg (5.2%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Iunga	25 g	60 min	11 %
Boil	Puławski	30 g	15 min	8.9 %
Boil	Cascade PL	50 g	10 min	5.2 %
Boil	Oktawia	30 g	10 min	7.1 %
Dry Hop	Cascade PL	50 g	2 day(s)	5.2 %
Dry Hop	Chinook PL	30 g	2 day(s)	13 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Slant	200 ml	Fermentum Mobile