

## 3# session IPA

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- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **39**
- SRM **4.8**
- Style **American Pale Ale**

### 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 **18.9 liter(s)**
- Total mash volume **25.2 liter(s)**

### Steps

- Temp **65 C**, Time **50 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **18.9 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **76C**
- Sparge using **12.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.4 kg (85.7%)	75 %	5
Grain	Viking Pilsner malt	0.5 kg (7.9%)	82 %	4
Grain	Viking Wheat Malt	0.4 kg (6.3%)	83 %	5

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	8.4 %
Aroma (end of boil)	Summit	15 g	10 min	17 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	15 g	5 min	15.5 %
Dry Hop	Citra	50 g	5 day(s)	12 %
Dry Hop	Columbus/Tomahawk/Zeus	15 g	5 day(s)	15.5 %
Dry Hop	Summit	15 g	5 day(s)	17 %
Aroma (end of boil)	Lomik	15 g	0 min	3.8 %

### Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Slant	300 ml	---

### Extras

Type	Name	Amount	Use for	Time
Fining	mech irlandzki	4 g	Boil	10 min

## Notes

- 2018-07-28- warzenie.  
2018-07-31- 3 blg zlanie na zimną i Chmieleniec.  
2018-08-05- butelkowane.  
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