

## Session IPA

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **28**
- SRM **3.6**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.4 liter(s)**
- Total mash volume **23.6 liter(s)**

### Steps

- Temp **58 C**, Time **10 min**
- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **18.4 liter(s)** of strike water to **63.4C**
- Add grains
- Keep mash **10 min** at **58C**
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód Pilsner® 2,5-4,5 EBC Weyermann	3.5 kg (66.7%)	80 %	4
Grain	Pszeniczny	1 kg (19%)	85 %	4
Grain	Płatki owsiane	0.75 kg (14.3%)	85 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	40 g	5 min	7.5 %
Whirlpool	Ekuanot	20 g	20 min	14.5 %
Whirlpool	Citra	20 g	20 min	13.5 %
Whirlpool	Motueka	20 g	20 min	5.3 %
Dry Hop	Ekuanot	40 g	2 day(s)	14.5 %
Dry Hop	Citra	40 g	2 day(s)	13.5 %
Dry Hop	Motueka	40 g	2 day(s)	5.3 %

### Yeasts

Name	Type	Form	Amount	Laboratory
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Safale US-05	Ale	Dry	11.5 g	Fermentis
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### Extras

Type	Name	Amount	Use for	Time
Water Agent	Gips piwowarski	4 g	Mash	0 min