

## coffe pale ale

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **27**
- SRM **5.6**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.2 liter(s)**
- Total mash volume **18.2 liter(s)**

### Steps

- Temp **67 C**, Time **75 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **14.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **16.4 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.65 kg (40.7%)	80 %	5
Grain	Strzegom Pilzneński	1 kg (24.7%)	80 %	4
Grain	Strzegom Monachijski typ I	1 kg (24.7%)	79 %	16
Grain	Biscuit Malt	0.2 kg (4.9%)	79 %	45
Grain	Abbey Castle	0.2 kg (4.9%)	80 %	45

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	10 g	50 min	15.5 %
Boil	Simcoe	20 g	10 min	13.2 %
Boil	Simcoe	30 g	0 min	13.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

### Extras

Type	Name	Amount	Use for	Time
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Fining	mech irlandzki	5 g	Boil	10 min
Flavor	kawa kostaryka	120 g	Secondary	7 day(s)