

american IPA

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **61**
- SRM **9.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **29.3 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **64 C**, Time **75 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **22.8 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **75 min** at **64C**
- Keep mash **10 min** at **75C**
- Sparge using **12.7 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (76.9%)	80 %	5
Grain	Strzegom Monachijski typ I	1 kg (15.4%)	79 %	16
Grain	Strzegom Karmel 150	0.5 kg (7.7%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	junga	30 g	45 min	12 %
Boil	Simcoe	25 g	30 min	12.9 %
Boil	Cascade	25 g	15 min	8 %

Yeasts

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