

Silgle Hop Azacca

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **23**
- SRM **3.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **7.2 liter(s)**
- Total mash volume **9.6 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **7.2 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **7.9 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	1.7 kg (70.8%)	80 %	4
Grain	Rice, Flaked	0.4 kg (16.7%)	70 %	2
Grain	Płatki owsiane	0.3 kg (12.5%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Azacca	5 g	60 min	12.7 %
Boil	Azacca	8 g	10 min	12.7 %
Dry Hop	Azacca	15 g	7 day(s)	12.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	3.85 g	---

Extras

Type	Name	Amount	Use for	Time
Fining	Whirlflock	0.96 g	Boil	15 min