

FRUIT SOUR ALE

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **23**
- SRM **4.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.5 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **32.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **52 C**, Time **5 min**
- Temp **62 C**, Time **25 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **5 min** at **52C**
- Keep mash **25 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **32.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.5 kg (47.9%)	80 %	4
Grain	Strzegom Wiedeński	1 kg (13.7%)	79 %	10
Grain	Słód Pszeniczny Jasny 5kg Bestmalz	0.5 kg (6.8%)	76 %	5
Grain	Płatki owsiane	2 kg (27.4%)	60 %	3
Adjunct	ŁUSKA RYŻOWA	0.3 kg (4.1%)	3 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	5 g	60 min	12 %
Aroma (end of boil)	Citra	10 g	30 min	12 %
Aroma (end of boil)	Citra	20 g	15 min	12 %

Yeasts

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

Extras

Type	Name	Amount	Use for	Time
Fining	Wiflock	25 g	Boil	15 min