

lemon rye saison

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **27**
- SRM **6**
- Style **Saison**

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 **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **25.2 liter(s)**

Steps

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

Mash step by step

- Heat up **19.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg (53.6%)	80 %	4
Grain	Żytni	1 kg (17.9%)	85 %	8
Grain	Pszeniczny	1 kg (17.9%)	85 %	4
Grain	Płatki orkiszowe	0.5 kg (8.9%)	85 %	4
Grain	Strzegom Karmel 300	0.1 kg (1.8%)	70 %	300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	15 g	60 min	15.5 %
Boil	citra	20 g	5 min	14.2 %
Boil	citra	30 g	0 min	14.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M29 French Saison	Ale	Dry	10 g	Mangrove Jack's

Extras

Type	Name	Amount	Use for	Time
Flavor	zest cytryna	50 g	Boil	5 min