

Galaxy Rye Pale Ale

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **29**
- SRM **3.7**
- Style **American Pale Ale**

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 **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **67 C**, Time **65 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **65 min** at **67C**
- Keep mash **5 min** at **75C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilznieński	3 kg (60%)	80 %	4
Grain	Żytni	1 kg (20%)	85 %	8
Grain	Weyermann - Carapils	0.5 kg (10%)	78 %	4
Grain	Weyermann - Acidulated Malt	0.25 kg (5%)	80 %	6
Grain	Płatki pszeniczne	0.25 kg (5%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Admiral	15 g	60 min	14.3 %
Boil	Galaxy	30 g	5 min	14.2 %
Boil	Galaxy	40 g	0 min	14.2 %

Yeasts

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

Extras

Type	Name	Amount	Use for	Time
Other	łuska ryżowa	250 g	Mash	20 min