

# GrowJish

- Gravity **7.3 BLG**
- ABV **2.8 %**
- IBU **30**
- SRM **2.7**
- Style **Grodziskie/Graetzer**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **12.6 liter(s)**
- Total mash volume **16.2 liter(s)**

## Steps

- Temp **65 C**, Time **35 min**
- Temp **75 C**, Time **30 min**
- Temp **78 C**, Time **2 min**

## Mash step by step

- Heat up **12.6 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **35 min** at **65C**
- Keep mash **30 min** at **75C**
- Keep mash **2 min** at **78C**
- Sparge using **22.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Grodziski	2 kg (55.6%)	80 %	4
Grain	Strzegom Pilzneński	0.6 kg (16.7%)	80 %	4
Grain	Weyermann pszeniczny jasny	1 kg (27.8%)	80 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	11 %
Boil	lunga	10 g	25 min	11 %
Boil	lunga	10 g	10 min	11 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11 g	Safale

## Extras

Type	Name	Amount	Use for	Time
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Spice	Liście Kaffiru	7 g	Boil	5 min
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