

# Grodziskie Wariacje III GRYKA

- Gravity **8.4 BLG**
- ABV ---
- IBU **34**
- SRM **10.5**
- Style **Grodziskie/Graetzer**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **10 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **33.1 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.3 liter(s)**
- Total mash volume **12.4 liter(s)**

## Steps

- Temp **65 C**, Time **40 min**
- Temp **70 C**, Time **40 min**
- Temp **77 C**, Time **1 min**

## Mash step by step

- Heat up **9.3 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **40 min** at **70C**
- Keep mash **1 min** at **77C**
- Sparge using **26.9 liter(s)** of **76C** water or to achieve **33.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Wędzony IREKS	0.7 kg (20%)	80 %	18
Grain	Weyermann - Pszeniczny wędzony dębem	0.6 kg (17.1%)	80 %	5
Grain	Kasza gryczana	0.5 kg (14.3%)	70 %	80
Grain	Pszeniczny	0.4 kg (11.4%)	85 %	4
Grain	Weyermann - Smoked Malt	0.4 kg (11.4%)	81 %	6
Adjunct	Płatki gryczane	0.4 kg (11.4%)	80 %	80
Grain	Pilzneński	0.4 kg (11.4%)	81 %	4
Grain	Weyermann - Acidulated Malt	0.1 kg (2.9%)	80 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %
Boil	Marynka	10 g	30 min	10 %
Boil	Tradition	15 g	15 min	5.5 %
Aroma (end of boil)	Tradition	5 g	1 min	5.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Slant	100 ml	Safbrew

## Extras

Type	Name	Amount	Use for	Time
Fining	żelatyna	5 g	Secondary	5 day(s)