# Rye porter

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **25**
- SRM **22.6**
- Style **Brown Porter**

## Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **16.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.2 liter(s)**
- Total mash volume **14.4 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**

## Mash step by step

- Heat up **11.2 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **8.4 liter(s)** of **76C** water or to achieve **16.4 liter(s)** of wort

## Fermentables

| Type | Name | Amount | Yield | EBC |
|---|---|---|---|---|
| Grain | Viking Pale Ale malt | 1.5 kg *(46.9%)* | 80 % | 5 |
| Grain | Żytni wayerman | 0.7 kg *(21.9%)* | 85 % | 8 |
| Grain | Red Crystal 350-450 EBC Thomas Fawcett | 0.2 kg *(6.2%)* | 70 % | 400 |
| Grain | Rye, Flaked | 0.5 kg *(15.6%)* | 78.3 % | 4 |
| Grain | Viking Czekoladowy ciemny | 0.1 kg *(3.1%)* | 67 % | 900 |
| Grain | wayerman special w | 0.2 kg *(6.2%)* | 68 % | 300 |

## Hops

| Use for | Name | Amount | Time | Alpha acid |
|---|---|---|---|---|
| Boil | First Gold | 20 g | 60 min | 5.6 % |
| Aroma (end of boil) | First Gold | 10 g | 10 min | 5.6 % |
| Aroma (end of boil) | Fuggles | 10 g | 10 min | 4.2 % |

## Yeasts

| Name | Type | Form | Amount | Laboratory |
|---|---|---|---|---|
| Lax whc | Ale | Slant | 200 ml | WHC |

## Extras

| Type | Name | Amount | Use for | Time |
|---|---|---|---|---|

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

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|---|---|---|---|---|
| Fining | whirlflock | 1 g | Boil | 5 min |
| Water Agent | kreda | 3 g | Mash | 60 min |
| Other | łuska ryżowa | 100 g | Mash | 5 min |
| Other | pozywka | 3 g | Primary | 0 day(s) |

## Notes

- łuska na mashout zaparzona whirflock 1/4 tabletki
  *Mar 16, 2025, 12:31 PM*