

# Hefe próba xXx

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **12**
- SRM **3.2**
- Style **Weizen/Weissbier**

## 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 **18 %/h**
- Boil size **29.9 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **17.6 liter(s)**
- Total mash volume **22 liter(s)**

## Steps

- Temp **44 C**, Time **20 min**
- Temp **55 C**, Time **10 min**
- Temp **65 C**, Time **40 min**
- Temp **72 C**, Time **20 min**

## Mash step by step

- Heat up **17.6 liter(s)** of strike water to **47C**
- Add grains
- Keep mash **20 min** at **44C**
- Keep mash **10 min** at **55C**
- Keep mash **40 min** at **65C**
- Keep mash **20 min** at **72C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **29.9 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Pilzneński                  | 2.1 kg (47.7%) | 81 %  | 4   |
| Grain | Pszeniczny                  | 2.2 kg (50%)   | 85 %  | 4   |
| Grain | Weyermann - Acidulated Malt | 0.1 kg (2.3%)  | 80 %  | 6   |

## Hops

| Use for | Name                 | Amount | Time   | Alpha acid |
|---------|----------------------|--------|--------|------------|
| Boil    | Hallertau mittelfruh | 25 g   | 60 min | 4.5 %      |

## Yeasts

| Name                   | Type  | Form  | Amount | Laboratory       |
|------------------------|-------|-------|--------|------------------|
| FM41 Gwoździe i Banany | Wheat | Slant | 100 ml | Fermentum Mobile |

## Extras

| Type  | Name                       | Amount | Use for | Time  |
|-------|----------------------------|--------|---------|-------|
| Other | Łuska ryżowa sterylizowana | 150 g  | Mash    | 5 min |

## Notes

- Łuskę namaczać 4 godziny przed dodaniem.  
Zacieranie dekokcyjne wg, załączonego w wersji papierowej, schematu.  
*Feb 8, 2021, 8:59 PM*