

## RIS - The Gravedigger - Brokreacja + slody

- Gravity **24.4 BLG**
- ABV **11.3 %**
- IBU **89**
- SRM **35.3**
- Style **Russian Imperial Stout**

### 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 **15 %/h**
- Boil size **29.7 liter(s)**

### Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **31.2 liter(s)**
- Total mash volume **41.6 liter(s)**

### Steps

- Temp **68 C**, Time **90 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **31.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **90 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **8.9 liter(s)** of **76C** water or to achieve **29.7 liter(s)** of wort

### Fermentables

| Type  | Name                                         | Amount         | Yield | EBC  |
|-------|----------------------------------------------|----------------|-------|------|
| Grain | Weyermann - Pale Ale Malt                    | 4.5 kg (43.3%) | 85 %  | 7    |
| Grain | Monachijski typ II<br>20-25 EBC<br>Weyermann | 2.8 kg (26.9%) | 80 %  | 20   |
| Grain | Weyermann - Carafa III                       | 0.3 kg (2.9%)  | 70 %  | 1024 |
| Grain | Weyermann - Chocolate Rye                    | 0.3 kg (2.9%)  | 20 %  | 493  |
| Grain | Weyermann - Chocolate Wheat                  | 0.3 kg (2.9%)  | 74 %  | 788  |
| Grain | Strzegom<br>Monachijski typ I                | 2 kg (19.2%)   | 79 %  | 16   |
| Grain | Carabelge                                    | 0.2 kg (1.9%)  | 80 %  | 30   |

### Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Warrior | 75 g   | 60 min | 15.5 %     |
| Boil    | Warrior | 25 g   | 30 min | 15.5 %     |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 23 g   | Fermentis  |

## Notes

- slody od Synka z BPA  
80gr glukozy na warke  
60-90 dni lezkowania w butelkach  
*Jan 2, 2018, 1:20 PM*