

# RIS wg Jacek Michna

- Gravity **27 BLG**
- ABV **12.9 %**
- IBU **58**
- SRM **49.4**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.2 liter(s)**
- Boil time **180 min**
- Evaporation rate **10 %/h**
- Boil size **30.2 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **29.3 liter(s)**
- Total mash volume **41 liter(s)**

## Steps

- Temp **67 C**, Time **90 min**

## Mash step by step

- Heat up **29.3 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **90 min** at **67C**
- Sparge using **12.6 liter(s)** of **76C** water or to achieve **30.2 liter(s)** of wort

## Fermentables

| Type  | Name                             | Amount         | Yield | EBC |
|-------|----------------------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt             | 5 kg (42.7%)   | 80 %  | 5   |
| Grain | Monachijski                      | 3.5 kg (29.9%) | 80 %  | 16  |
| Grain | Jęczmień palony                  | 0.6 kg (5.1%)  | 55 %  | 985 |
| Grain | Caraaroma                        | 0.5 kg (4.3%)  | 78 %  | 400 |
| Grain | Słód Caramunich Typ II Weyermann | 0.5 kg (4.3%)  | 73 %  | 120 |
| Grain | Płatki pszeniczne                | 0.4 kg (3.4%)  | 85 %  | 3   |
| Grain | Płatki owsiane                   | 0.4 kg (3.4%)  | 85 %  | 3   |
| Grain | Jęczmień niesłodowany            | 0.4 kg (3.4%)  | 75 %  | 2   |
| Grain | Carafa                           | 0.4 kg (3.4%)  | 70 %  | 664 |

## Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Marynka           | 80 g   | 90 min | 10 %       |
| Boil    | Lublin (Lubelski) | 60 g   | 10 min | 4 %        |

## Yeasts

| Name                     | Type | Form   | Amount | Laboratory |
|--------------------------|------|--------|--------|------------|
| WLP004 - Irish Ale Yeast | Ale  | Liquid | 20 ml  | White Labs |

## Notes

- płatki jęczmienne a nie jęczmień niesłodowany  
drożdże to pewnie jakas gestwa? albo starter ?

burzliwa 21 dni w 15C  
cicha 21 dni w 15C

[http://www.wiki.piwo.org/Russian\\_Imperial\\_Stout,\\_Jacek\\_Michna\\_\(szop007\)](http://www.wiki.piwo.org/Russian_Imperial_Stout,_Jacek_Michna_(szop007))  
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