

# Lwie Serce

- Gravity **23.6 BLG**
- ABV **10.8 %**
- IBU **51**
- SRM **56.7**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **5.3 liter(s)**
- Boil time **100 min**
- Evaporation rate **10 %/h**
- Boil size **6.8 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **8.4 liter(s)**
- Total mash volume **10.8 liter(s)**

## Steps

- Temp **68 C**, Time **50 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **8.4 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **50 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **0.8 liter(s)** of **76C** water or to achieve **6.8 liter(s)** of wort

## Fermentables

| Type  | Name                             | Amount         | Yield  | EBC  |
|-------|----------------------------------|----------------|--------|------|
| Grain | Viking Pale Ale malt             | 1 kg (41.7%)   | 80 %   | 5    |
| Grain | Strzegom Monachijski typ I       | 0.5 kg (20.8%) | 79 %   | 16   |
| Grain | Caramunich® typ I                | 0.2 kg (8.3%)  | 73 %   | 80   |
| Grain | Caraaroma                        | 0.2 kg (8.3%)  | 78 %   | 400  |
| Grain | Fawcett - Pale Chocolate         | 0.2 kg (8.3%)  | 71 %   | 500  |
| Grain | Special W Malt                   | 0.2 kg (8.3%)  | 65.2 % | 300  |
| Grain | Weyermann Pszeniczny Czekoladowy | 0.1 kg (4.2%)  | 73 %   | 1001 |

## Hops

| Use for | Name   | Amount | Time   | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil    | Galena | 15 g   | 60 min | 12 %       |

## Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale  | Slant | 100 ml | Fermentis  |

## Extras

| Type  | Name                                    | Amount | Use for   | Time      |
|-------|---|--------|-----------|-----------|
| Other | ziarna tonka                            | 6 g    | Secondary | 10 day(s) |
| Other | płatki dębowe<br>marecowane w<br>whisky | 20 g   | Secondary | 10 day(s) |