

# Truskawkowy milkshake IPA "Truskawki w Ministerstwie"

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **32**
- SRM **5.1**
- Style **Fruit Beer**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **33 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

## Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **18 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **21 liter(s)** of **76C** water or to achieve **33 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount        | Yield  | EBC |
|-------|----------------------|---------------|--------|-----|
| Grain | Viking Pale Ale malt | 3 kg (42.9%)  | 80 %   | 5   |
| Grain | Płatki pszeniczne    | 0.5 kg (7.1%) | 85 %   | 3   |
| Sugar | Milk Sugar (Lactose) | 1 kg (14.3%)  | 76.1 % | 0   |
| Grain | Strzegom Pilzneński  | 2 kg (28.6%)  | 80 %   | 4   |
| Grain | Strzegom Bursztynowy | 0.5 kg (7.1%) | 70 %   | 49  |

## Hops

| Use for             | Name    | Amount | Time   | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil                | Ekuanot | 15 g   | 60 min | 16.1 %     |
| Boil                | Citra   | 10 g   | 10 min | 12 %       |
| Boil                | Mosaic  | 10 g   | 10 min | 10.4 %     |
| Aroma (end of boil) | Citra   | 20 g   | 5 min  | 12 %       |
| Aroma (end of boil) | Mosaic  | 20 g   | 5 min  | 10.4 %     |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

## Extras

| Type   | Name      | Amount | Use for   | Time     |
|--------|-----------|--------|-----------|----------|
| Flavor | truskawki | 4000 g | Secondary | 7 day(s) |
| Flavor | Wanilia   | 3 g    | Secondary | 7 day(s) |