

# Marysia ver2 z trawa cytrynową

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **26**
- SRM **3.8**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.4 liter(s)**
- Total mash volume **21.1 liter(s)**

## Steps

- Temp **64 C**, Time **45 min**
- Temp **70 C**, Time **15 min**

## Mash step by step

- Heat up **16.4 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **70C**
- Sparge using **13.8 liter(s)** of **76C** water or to achieve **25.5 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3 kg (63.8%)   | 80 %  | 5   |
| Grain | Pszeniczny           | 0.5 kg (10.6%) | 85 %  | 4   |
| Grain | Pilznieński          | 1.2 kg (25.5%) | 81 %  | 4   |

## Hops

| Use for             | Name    | Amount | Time     | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil                | lunga   | 10 g   | 60 min   | 11 %       |
| Boil                | Cascade | 10 g   | 30 min   | 6 %        |
| Boil                | Mosaic  | 15 g   | 15 min   | 10 %       |
| Aroma (end of boil) | Mosaic  | 20 g   | 0 min    | 10 %       |
| Dry Hop             | Cascade | 10 g   | 3 day(s) | 6 %        |

## Yeasts

| Name                 | Type | Form | Amount | Laboratory |
|----------------------|------|------|--------|------------|
| Danstar - Nottingham | Ale  | Dry  | 11 g   | Danstar    |

## Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |                 |      |           |          |
|--------|-----------------|------|-----------|----------|
| Flavor | trawa cytrynowa | 20 g | Secondary | 3 day(s) |
|--------|-----------------|------|-----------|----------|