

Cytrynowy American Wheat

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **82**
- SRM **3.6**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **9.5 %/h**
- Boil size **29.5 liter(s)**

Mash information

- Mash efficiency **87 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **19.5 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|--------------|-------|-----|
| Grain | Strzegom Pilzneński | 2 kg (40%) | 80 % | 4 |
| Grain | Strzegom Pszeniczny | 2 kg (40%) | 81 % | 6 |
| Grain | Płatki pszeniczne | 0.5 kg (10%) | 85 % | 3 |
| Grain | Płatki owsiane | 0.5 kg (10%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 50 g | 60 min | 15.5 % |
| Aroma (end of boil) | Sorachi Ace | 50 g | 5 min | 10 % |
| Dry Hop | Sorachi Ace | 50 g | 3 day(s) | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|--------|------------------|
| FM52 Amerykański Sen | Ale | Liquid | 50 ml | Fermentum Mobile |

Extras

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

| | | | | |
|-------|-------------------|------|------|-------|
| Spice | skórka cytrynowa | 25 g | Boil | 5 min |
| Spice | werbena cytrynowa | 30 g | Boil | 3 min |
| Spice | trawa cytrynowa | 30 g | Boil | 3 min |