

ameryka zboża

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **37**
- SRM **3.5**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.3 liter(s)**
- Total mash volume **11 liter(s)**

Steps

- Temp **62 C**, Time **45 min**
- Temp **70 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **8.3 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **70C**
- Keep mash **1 min** at **78C**
- Sparge using **9 liter(s)** of **76C** water or to achieve **14.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|-----------------|-------|-----|
| Grain | Viking Pale Ale malt | 1.1 kg (40%) | 80 % | 5 |
| Grain | Pszeniczny | 0.75 kg (27.3%) | 85 % | 4 |
| Grain | Rice, Flaked | 0.4 kg (14.5%) | 70 % | 2 |
| Grain | Płatki owsiane | 0.5 kg (18.2%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Citra | 10 g | 15 min | 14.2 % |
| Boil | Simcoe | 10 g | 15 min | 12.1 % |
| Boil | Mosaic | 10 g | 15 min | 11.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 150 ml | Fermentis |

Extras

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

| | | | | |
|--------|---------------------------|------|------|--------|
| Flavor | skórka pomarańczy suszona | 50 g | Boil | 15 min |
| Flavor | trawa cytrynoa | 10 g | Boil | 15 min |
| Flavor | skórka cytryny suszona | 10 g | Boil | 15 min |
| Flavor | kolendra | 5 g | Boil | 15 min |

Notes

- Skórka pójdzie na ostatnią minute gotowanie i potem 15 min
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