

American Wheat - podwojna porcja (high gravity brewing)

- Gravity **20.5 BLG**
- ABV **9 %**
- IBU **28**
- SRM **5.6**

Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **34.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2 liter(s) / kg**
- Mash size **22 liter(s)**
- Total mash volume **33 liter(s)**

Steps

- Temp **44 C**, Time **30 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **22 liter(s)** of strike water to **50C**
- Add grains
- Keep mash **30 min** at **44C**
- Keep mash **45 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **23.2 liter(s)** of **76C** water or to achieve **34.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 6 kg (54.5%) | 80 % | 5 |
| Grain | Pszeniczny | 3.9 kg (35.5%) | 85 % | 4 |
| Grain | Pilzneński | 1 kg (9.1%) | 81 % | 4 |
| Grain | Monachijski | 0.1 kg (0.9%) | 80 % | 16 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil | Citra | 24 g | 60 min | 12 % |
| Boil | Simcoe | 26 g | 10 min | 13.2 % |
| Boil | Mosaic | 26 g | 5 min | 10 % |
| Aroma (end of boil) | Citra | 24 g | 0 min | 12 % |
| Aroma (end of boil) | Simcoe | 24 g | 0 min | 13.2 % |
| Aroma (end of boil) | Mosaic | 24 g | 0 min | 10 % |
| Dry Hop | Cascade | 60 g | 0 day(s) | 6 % |
| Dry Hop | Amarillo | 50 g | 0 day(s) | 9.5 % |

Yeasts

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

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