

ŁitoutAmerykanajpije

- Gravity **14 BLG**
- ABV ---
- IBU **79**
- SRM **7.1**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **50 liter(s)**
- Trub loss **5 %**
- Size with trub loss **52.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **63.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **38.4 liter(s)**
- Total mash volume **51.2 liter(s)**

Steps

- Temp **53 C**, Time **10 min**
- Temp **67 C**, Time **60 min**
- Temp **71 C**, Time **15 min**
- Temp **77 C**, Time **10 min**

Mash step by step

- Heat up **38.4 liter(s)** of strike water to **58.5C**
- Add grains
- Keep mash **10 min** at **53C**
- Keep mash **60 min** at **67C**
- Keep mash **15 min** at **71C**
- Keep mash **10 min** at **77C**
- Sparge using **37.7 liter(s)** of **76C** water or to achieve **63.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|-----------------|-------|-----|
| Grain | Barke Pilzneński | 0.85 kg (6.6%) | 81 % | 3 |
| Grain | Pszeniczny | 2.45 kg (19.1%) | 85 % | 4 |
| Grain | Oats, Flaked | 1 kg (7.8%) | 80 % | 2 |
| Grain | Strzegom Pale Ale | 5 kg (39.1%) | 79 % | 6 |
| Grain | Weyermann - Carabelge | 1.5 kg (11.7%) | 80 % | 32 |
| Grain | Wheat, Flaked | 1 kg (7.8%) | 77 % | 4 |
| Grain | Zakwaszający | 1 kg (7.8%) | 75 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 90 g | 60 min | 15 % |
| Boil | Citra | 30 g | 30 min | 12.4 % |
| Boil | Cascade | 30 g | 15 min | 6.9 % |
| Dry Hop | Cascade | 60 g | 0 day(s) | 6.9 % |
| Dry Hop | Citra | 60 g | 0 day(s) | 12.4 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------|------|------|--------|------------|
| us-05 | Ale | Dry | 11.5 g | --- |
| BREWGO ALE | Ale | Dry | 7 g | BROWIN |

Extras

| Type | Name | Amount | Use for | Time |
|-------|-----------------|--------|---------|--------|
| Spice | Curacao | 45 g | Boil | 55 min |
| Herb | trawa cytrynowa | 20 g | Boil | 50 min |