

Wujek z Antypodów

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **50**
- SRM **5.3**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **28.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.7 liter(s)**
- Total mash volume **27.6 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **20.7 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **28.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 4.5 kg (65.2%) | 85 % | 7 |
| Grain | Weyermann - Carapils | 0.3 kg (4.3%) | 78 % | 4 |
| Grain | Płatki owsiane | 0.3 kg (4.3%) | 85 % | 3 |
| Grain | Płatki ryżowe | 0.3 kg (4.3%) | 80 % | 2 |
| Grain | Strzegom Pilzneński | 1.5 kg (21.7%) | 80 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------------|--------|----------|------------|
| Boil | Magnum | 10 g | 60 min | 10.6 % |
| Boil | Citra | 30 g | 30 min | 14.2 % |
| Boil | Dr Rudi | 20 g | 15 min | 11.8 % |
| Aroma (end of boil) | Southern Cross | 10 g | 5 min | 12.8 % |
| Aroma (end of boil) | Pacific Gem | 10 g | 0 min | 13.2 % |
| Dry Hop | Dr Rudi | 40 g | 5 day(s) | 11.8 % |
| Dry Hop | Sothern Cross | 20 g | 5 day(s) | 12.8 % |
| Dry Hop | Pacific Gem | 20 g | 5 day(s) | 13.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|-------|--------|------------|
| Safale S-04 | Ale | Slant | 50 ml | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------|--------|---------|--------|
| Flavor | Zest z pomarańczy | 5 g | Boil | 15 min |
| Flavor | Sok z pomarańczy | 25 g | Boil | 15 min |