

Tłusty hop

- Gravity **19.1 BLG**
- ABV **8.3 %**
- IBU **86**
- SRM **5.2**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.3 liter(s)**
- Total mash volume **31 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **23.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **75C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|----------------|--------|-----|
| Grain | Pilzneński | 6.5 kg (78.8%) | 81 % | 4 |
| Grain | Weyermann - Carapils | 1 kg (12.1%) | 78 % | 4 |
| Grain | Simpsons - Caramalt Light | 0.25 kg (3%) | 76 % | 26 |
| Sugar | Candi Sugar, Clear | 0.5 kg (6.1%) | 78.3 % | 2 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|--------|--------|----------|------------|
| Boil | lunga | 50 g | 60 min | 11 % |
| Whirlpool | Citra | 50 g | 20 min | 12 % |
| Whirlpool | Mosaic | 50 g | 20 min | 10 % |
| Whirlpool | Galaxy | 50 g | 20 min | 15 % |
| Dry Hop | Citra | 50 g | 2 day(s) | 12 % |
| Dry Hop | Mosaic | 50 g | 2 day(s) | 10 % |
| Dry Hop | Galaxy | 100 g | 2 day(s) | 15 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|------------------------------------|-----|-------|--------|------------|
| WLP051 - California Ale V Yeast | Ale | Slant | 350 ml | White Labs |
|------------------------------------|-----|-------|--------|------------|