

Ms IPA

- Gravity **17.1 BLG**
- ABV **7.3 %**
- IBU **51**
- SRM **6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **2 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.75 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **29.2 liter(s)**

Steps

- Temp **68 C**, Time **60 min**

Mash step by step

- Heat up **23.1 liter(s)** of strike water to **74.4C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **8.4 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 5 kg (81.3%) | 85 % | 7 |
| Grain | Weyermann - Pale Wheat Malt | 0.45 kg (7.3%) | 85 % | 5 |
| Grain | Karmelowy Jasny 30EBC | 0.3 kg (4.9%) | 75 % | 30 |
| Grain | Oats, Flaked | 0.4 kg (6.5%) | 80 % | 2 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------|--------|----------|------------|
| Boil | Citra | 25 g | 50 min | 13.7 % |
| Boil | Citra | 15 g | 30 min | 13.7 % |
| Aroma (end of boil) | Galaxy | 10 g | 5 min | 13.5 % |
| Aroma (end of boil) | Huell Melon | 10 g | 5 min | 7.5 % |
| Aroma (end of boil) | Galaxy | 15 g | 1 min | 13.7 % |
| Aroma (end of boil) | Huell Melon | 15 g | 1 min | 7.5 % |
| Aroma (end of boil) | Citra | 15 g | 1 min | 13.7 % |
| Dry Hop | Citra | 25 g | 4 day(s) | 13.7 % |
| Dry Hop | Galaxy | 24 g | 4 day(s) | 13.7 % |
| Dry Hop | Huell Melon | 22 g | 4 day(s) | 13.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------|--------|-----------|----------|
| Flavor | Laktoza | 650 g | Boil | 15 min |
| Flavor | Mrożone truskawki | 1350 g | Secondary | 6 day(s) |
| Flavor | Wanilia (2 laski) | 6 g | Secondary | 4 day(s) |