

Double Polish IPA

- Gravity **18.2 BLG**
- ABV **7.8 %**
- IBU **92**
- SRM **5.6**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.75 liter(s) / kg**
- Mash size **22 liter(s)**
- Total mash volume **30 liter(s)**

Steps

- Temp **64 C**, Time **90 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **22 liter(s)** of strike water to **72C**
- Add grains
- Keep mash **90 min** at **64C**
- Keep mash **10 min** at **78C**
- Sparge using **12.5 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------|--------------|-------|-----|
| Grain | Pilzneński | 7 kg (87.5%) | 81 % | 4 |
| Grain | Monachijski | 1 kg (12.5%) | 80 % | 16 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Boil | lunga | 80 g | 60 min | 11 % |
| Boil | Chinook PL | 50 g | 20 min | 8.6 % |
| Aroma (end of boil) | Sybilla | 50 g | 0 min | 6.2 % |
| Whirlpool | Chinook PL | 50 g | 0 min | 8.6 % |
| Whirlpool | lunga | 50 g | 0 min | 11 % |
| Whirlpool | Sybilla | 50 g | 0 min | 3.5 % |
| Dry Hop | Sybilla | 100 g | 3 day(s) | 6.2 % |
| Dry Hop | Chinook PL | 50 g | 3 day(s) | 8.6 % |
| Dry Hop | Cascade PL | 50 g | 3 day(s) | 5.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------|------|-------|--------|------------------|
| FM54 Gorączka kalifornijska | Ale | Slant | 200 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------|--------|---------|--------|
| Water Agent | caso4 | 5 g | Mash | 60 min |
| Water Agent | lactic acid | 5 g | Mash | 60 min |
| Fining | whirlfloc-t | 2.5 g | Boil | 10 min |
| Water Agent | nacl | 3 g | Mash | 60 min |