

Pij w Mig-29

- Gravity **20.5 BLG**
- ABV **9 %**
- IBU **63**
- SRM **6.3**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **12.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.4 liter(s)**
- Boil time **40 min**
- Evaporation rate **7 %/h**
- Boil size **16 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **13.6 liter(s)**
- Total mash volume **19.1 liter(s)**

Steps

- Temp **50 C**, Time **20 min**
- Temp **61 C**, Time **70 min**
- Temp **76 C**, Time **20 min**

Mash step by step

- Heat up **13.6 liter(s)** of strike water to **56C**
- Add grains
- Keep mash **20 min** at **50C**
- Keep mash **70 min** at **61C**
- Keep mash **20 min** at **76C**
- Sparge using **7.9 liter(s)** of **76C** water or to achieve **16 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|-----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 3 kg (55%) | 85 % | 7 |
| Grain | Weyermann - Pale Wheat Malt | 1.7 kg (31.2%) | 85 % | 4 |
| Grain | Płatki pszeniczne | 0.63 kg (11.6%) | 60 % | 6 |
| Grain | Płatki owsiane | 0.12 kg (2.2%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|----------|------------|
| Boil | Izabella | 30 g | 25 min | 7.6 % |
| Boil | Styrian Dragon | 30 g | 25 min | 7.2 % |
| Boil | Styrian Cardinal | 10 g | 12 min | 8.8 % |
| Boil | Styrian Cardinal | 15 g | 8 min | 8.8 % |
| Boil | Styrian Cardinal | 15 g | 5 min | 8.8 % |
| Aroma (end of boil) | Styrian Cardinal | 20 g | 0 min | 8.8 % |
| Whirlpool | Styrian Cardinal | 30 g | 10 min | 8.8 % |
| Whirlpool | Falconer's Flight | 30 g | 10 min | 10.5 % |
| Dry Hop | Falconer's Flight | 30 g | 5 day(s) | 10.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|---------|--------|------------|
| Safale US-05 | Ale | Culture | 25 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------------|--------|---------|--------|
| Water Agent | Gips | 3.9 g | Mash | 80 min |
| Fining | Mech irlandzki | 4 g | Boil | 1 min |
| Fining | Whirlfloc T | 1.25 g | Boil | 1 min |
| Water Agent | CaCO ₃ | 0.7 g | Mash | 80 min |