

Imperjal ajpa ajpa

- Gravity **19.1 BLG**
- ABV **8.3 %**
- IBU **113**
- SRM **9.6**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **9 %/h**
- Boil size **30.8 liter(s)**

Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **26.7 liter(s)**
- Total mash volume **35.6 liter(s)**

Steps

- Temp **63 C**, Time **50 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **26.7 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **50 min** at **63C**
- Keep mash **10 min** at **76C**
- Sparge using **13 liter(s)** of **76C** water or to achieve **30.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|----------------|-------|-----|
| Grain | Castle Pale Ale | 7 kg (76.9%) | 80 % | 8 |
| Grain | Viking Wheat Malt | 1.4 kg (15.4%) | 83 % | 5 |
| Grain | Słód Caramunich Typ II Weyermann | 0.5 kg (5.5%) | 73 % | 120 |
| Sugar | Cukier biały | 0.2 kg (2.2%) | --- % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------------------|----------|--------|----------|------------|
| Boil | Citra | 60 g | 60 min | 13.3 % |
| Boil | Simcoe | 60 g | 60 min | 12.1 % |
| Aroma (end of boil) | Cascade | 25 g | 0 min | 8.7 % |
| Aroma (end of boil) | Amarillo | 25 g | 0 min | 8.2 % |
| Whirlpool | Cascade | 25 g | 15 min | 8.7 % |
| HOP STAND 15min w 75° | | | | |
| Whirlpool | Amarillo | 25 g | 15 min | 8.2 % |
| HOP STAND 15min w 75° | | | | |
| Dry Hop | Cascade | 50 g | 3 day(s) | 8.7 % |
| Dry Hop | Amarillo | 50 g | 3 day(s) | 8.2 % |

| | | | | |
|---------|--------|-------|----------|--------|
| Dry Hop | Simcoe | 100 g | 3 day(s) | 12.1 % |
|---------|--------|-------|----------|--------|

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------------------|------|--------|--------|------------------|
| FM13 Irlandzkie Ciemności | Ale | Liquid | 300 ml | Fermentum Mobile |