

Session IPA

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **28**
- SRM **3.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.4 liter(s)**
- Total mash volume **23.6 liter(s)**

Steps

- Temp **58 C**, Time **10 min**
- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **18.4 liter(s)** of strike water to **63.4C**
- Add grains
- Keep mash **10 min** at **58C**
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---|-----------------|-------|-----|
| Grain | Słód Pilsner® 2,5-4,5 EBC Weyermann | 3.5 kg (66.7%) | 80 % | 4 |
| Grain | Pszeniczny | 1 kg (19%) | 85 % | 4 |
| Grain | Płatki owsiane | 0.75 kg (14.3%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|----------|--------|----------|------------|
| Boil | Amarillo | 40 g | 5 min | 7.5 % |
| Whirlpool | Ekuanot | 20 g | 20 min | 14.5 % |
| Whirlpool | Citra | 20 g | 20 min | 13.5 % |
| Whirlpool | Motueka | 20 g | 20 min | 5.3 % |
| Dry Hop | Ekuanot | 40 g | 2 day(s) | 14.5 % |
| Dry Hop | Citra | 40 g | 2 day(s) | 13.5 % |
| Dry Hop | Motueka | 40 g | 2 day(s) | 5.3 % |

Yeasts

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

| | | | | |
|--------------|-----|-----|--------|-----------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |
|--------------|-----|-----|--------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-----------------|--------|---------|-------|
| Water Agent | Gips piwowarski | 4 g | Mash | 0 min |