

Session APA 1.0

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **32**
- SRM **3.6**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.4 liter(s)**
- Total mash volume **25.8 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **19.4 liter(s)** of strike water to **73.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **76C**
- Sparge using **18.8 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|----------------|-------|-----|
| Grain | Platki owsiane | 0.2 kg (3.1%) | 75 % | 3 |
| Grain | Pilzneński | 4.5 kg (69.8%) | 81 % | 3.5 |
| Grain | Rice, Flaked | 0.25 kg (3.9%) | 70 % | 2 |
| Grain | Weyermann - Carapils | 0.5 kg (7.8%) | 78 % | 3.5 |
| Grain | Maris Otter Pale Malt | 1 kg (15.5%) | 80 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|----------|--------|----------|------------|
| Boil | Citra | 20 g | 60 min | 13.8 % |
| Boil | Amarillo | 20 g | 15 min | 8.2 % |
| Whirlpool | Cascade | 20 g | 0 min | 5.6 % |
| Whirlpool | Amarillo | 20 g | 0 min | 8.2 % |
| Whirlpool | Citra | 20 g | 0 min | 13.8 % |
| Dry Hop | Equinox | 30 g | 7 day(s) | 15.4 % |
| Dry Hop | Amarillo | 10 g | 7 day(s) | 8.2 % |
| Dry Hop | Equinox | 20 g | 5 day(s) | 15.4 % |
| Dry Hop | Equinox | 50 g | 2 day(s) | 15.4 % |

| | | | | |
|---------|----------|------|----------|--------|
| Dry Hop | Amarillo | 50 g | 2 day(s) | 8.2 % |
| Dry Hop | Citra | 50 g | 2 day(s) | 13.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------|----------|--------|---------|-------|
| Other | wirflock | 0.5 g | Boil | 5 min |