

Kveik APA v4 #72

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **33**
- SRM **4.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **19.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **110 min**
- Evaporation rate **15 %/h**
- Boil size **27.3 liter(s)**

Mash information

- Mash efficiency **83 %**
- Liquor-to-grist ratio **4.76 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **24.2 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **7 min**

Mash step by step

- Heat up **20 liter(s)** of strike water to **73C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **7 min** at **76C**
- Sparge using **11.5 liter(s)** of **76C** water or to achieve **27.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|----------------|-------|-----|
| Grain | Viking - pale ale | 3.3 kg (78.6%) | 79 % | 6 |
| Grain | Viking - monachijski I | 0.4 kg (9.5%) | 78 % | 16 |
| Grain | Platki owsiane | 0.5 kg (11.9%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Boil | Warrior | 12 g | 60 min | 14.7 % |
| Aroma (end of boil) | Citra | 25 g | 5 min | 12.7 % |
| blend 13,7% i 12% | | | | |
| Aroma (end of boil) | Cascade US | 25 g | 5 min | 6.9 % |
| Dry Hop | Ekuanot | 35 g | 3 day(s) | 16.1 % |
| Dry Hop | Cascade US | 20 g | 3 day(s) | 6.9 % |
| Dry Hop | Citra | 10 g | 3 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------|------|-------|--------|------------------|
| FM53 Voss Kveik | Ale | Slant | 120 ml | Fermentum Mobile |

Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|-------------|-----------------------|--------|---------|-------|
| Water Agent | gips | 3 g | Mash | --- |
| Water Agent | kwas mlekowy 80% [ml] | 4.95 g | Mash | --- |
| Water Agent | chlorek wapnia [ml] | 3.44 g | Mash | --- |
| Water Agent | epsom | 1.5 g | Mash | --- |
| Water Agent | mech irlandzki | 3 g | Boil | 5 min |