

Tea Apa

- Gravity **10 BLG**
- ABV **4 %**
- IBU **43**
- SRM **3.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **35 liter(s)**
- Trub loss **5 %**
- Size with trub loss **36.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **48.2 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **32 liter(s)**
- Total mash volume **40 liter(s)**

Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **32 liter(s)** of strike water to **68.4C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **24.2 liter(s)** of **76C** water or to achieve **48.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|------------|-------|-----|
| Grain | Viking Pilsner malt | 4 kg (50%) | 82 % | 4 |
| Grain | Viking Pale Ale malt | 4 kg (50%) | 80 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------|--------|--------|------------|
| Boil | Simcoe | 30 g | 60 min | 12.1 % |
| Boil | Simcoe | 30 g | 30 min | 11.5 % |
| Aroma (end of boil) | Simcoe | 10 g | 10 min | 11.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 22 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------------|--------|-----------|----------|
| Flavor | Herbata dodana na cichą | 60 g | Secondary | 2 day(s) |