

APA 99/00

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **64**
- SRM **3.7**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **48 liter(s)**
- Trub loss **5 %**
- Size with trub loss **55.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **68.9 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **60 liter(s)**
- Total mash volume **72 liter(s)**

Steps

- Temp **70 C**, Time **60 min**

Mash step by step

- Heat up **60 liter(s)** of strike water to **75C**
- Add grains
- Keep mash **60 min** at **70C**
- Sparge using **20.9 liter(s)** of **76C** water or to achieve **68.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|--------------|-------|-----|
| Grain | Viking Pale Ale malt | 12 kg (100%) | 80 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Magnum | 140 g | 30 min | 12.7 % |
| Boil | Columbus/Tomahawk/Zeus | 60 g | 10 min | 10.7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------------------|------|-------|--------|------------|
| Lallemand - LalBrew Voss Kveik | Ale | Slant | 50 ml | Lallemand |

Notes

- 99 kveik + Nelson
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