

APA 15/16

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **65**
- SRM **3.8**
- 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 **62.5 liter(s)**
- Total mash volume **75 liter(s)**

Steps

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

Mash step by step

- Heat up **62.5 liter(s)** of strike water to **75C**
- Add grains
- Keep mash **60 min** at **70C**
- Sparge using **18.9 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 | 12.5 kg (100%) | 80 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Magnum | 100 g | 60 min | 16.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------|------|-------|--------|------------|
| Farmgarden | Ale | Slant | 50 ml | Lallemand |

Notes

- 15 - 100g nectaron 1 dzień fermentacji, 100g na zimno

16 - ctz+ nectaron po 100g na zimno
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