

APA na szybko

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **30**
- SRM **5.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.1 liter(s)**

Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.3 liter(s)**
- Total mash volume **18.4 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|------------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3.7 kg (80.4%) | 80 % | 5 |
| Adjunct | Pszenica niesłodowana | 0.5 kg (10.9%) | 75 % | 3 |
| Grain | Carared | 0.25 kg (5.4%) | 75 % | 39 |
| Grain | Honey Malt | 0.1 kg (2.2%) | 80 % | 7 |
| Grain | Simpsons - Crystal Rye | 0.05 kg (1.1%) | 73 % | 177 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------|--------|--------|------------|
| Boil | lunga | 25 g | 45 min | 9.5 % |
| Boil | Centennial | 25 g | 5 min | 8.5 % |
| Whirlpool | Centennial | 40 g | 0 min | 10.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
| Us05 | Ale | Dry | 10 g | Fermentis |