

APA Hopzoil i Forest

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **32**
- SRM **4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **60 liter(s)**
- Trub loss **5 %**
- Size with trub loss **63 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **75.9 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **39 liter(s)**
- Total mash volume **52 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 11 kg (84.6%) | 80 % | 5 |
| Grain | Płatki owsiane | 1 kg (7.7%) | 85 % | 3 |
| Grain | Monachijski | 1 kg (7.7%) | 80 % | 16 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 25 g | 60 min | 15.5 % |
| Boil | Columbus/Tomahawk/Zeus | 50 g | 20 min | 15.5 % |
| Whirlpool | Styrian Dragon | 100 g | 0 min | 7.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 20 g | Fermentis |