

#29 Grodziskie ala APA

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **25**
- SRM **9.8**
- Style **Grodziskie**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|----------------|-----------------------------------|-----------------|-------|-----|
| Liquid Extract | Bruntal ekstrakt słodowy Pale Ale | 3.4 kg (88.2%) | 80 % | 35 |
| Grain | Pilzneński | 0.125 kg (3.2%) | 81 % | 4 |
| Grain | Smoked Malt | 0.33 kg (8.6%) | 80 % | 18 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|----------|------------|
| Boil | Magnum | 15 g | 60 min | 11.8 % |
| Boil | Cascade PL | 5 g | 20 min | 7.9 % |
| Boil | Tomyski | 5 g | 20 min | 4.9 % |
| Boil | Eliksir | 5 g | 20 min | 5 % |
| Boil | Cascade PL | 10 g | 3 min | 7.9 % |
| Boil | Tomyski | 10 g | 3 min | 4.9 % |
| Boil | Eliksir | 10 g | 3 min | 5 % |
| Dry Hop | Cascade PL | 25 g | 3 day(s) | 7.9 % |
| Dry Hop | Tomyski | 25 g | 3 day(s) | 4.9 % |
| Dry Hop | Eliksir | 25 g | 3 day(s) | 5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 50 ml | wlasne |