

Bitter v 1.0

- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **27**
- SRM **8.5**
- Style **Standard/Ordinary Bitter**

Batch size

- Expected quantity of finished beer **36 liter(s)**
- Trub loss **5 %**
- Size with trub loss **37.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **45.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.8 liter(s)**
- Total mash volume **31.7 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Simpsons - Maris Otter | 3.6 kg (45.5%) | 81 % | 6 |
| Grain | Viking Pale Ale malt | 3.6 kg (45.5%) | 80 % | 5 |
| Grain | Caramel/Crystal Malt - 120L | 0.72 kg (9.1%) | 20 % | 160 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | Admiral | 19.8 g | 60 min | 14.1 % |
| Boil | East Kent Goldings | 27 g | 30 min | 4.5 % |
| Boil | East Kent Goldings | 27 g | 10 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------------------|------|-------|--------|------------------|
| FM13 Irlandzkie Ciemności | Ale | Slant | 180 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Irlandzki mech | 18 g | Boil | 20 min |