

## Dry Stout HB mod FM52 (starter)

---

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **31**
- SRM **27.8**
- Style **Dry Stout**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **26.5 liter(s)**
- Total mash volume **31.8 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (56.6%)	80 %	5
Grain	Jęczmień palony	0.5 kg (9.4%)	55 %	985
Grain	Barley, Flaked	0.8 kg (15.1%)	70 %	4
Grain	Viking Pilsner malt	1 kg (18.9%)	82 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	30 g	60 min	7 %
Boil	Fuggles	30 g	15 min	4.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	100 ml	Fermentum Mobile