

## Old ale /bitter

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- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **36**
- SRM **25.6**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **180 min**
- Evaporation rate **10 %/h**
- Boil size **29.9 liter(s)**

### Mash information

- Mash efficiency **29 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **48.8 liter(s)**
- Total mash volume **65 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Golden Promise	15 kg (92.3%)	81 %	4
Grain	Special B Malt	0.25 kg (1.5%)	65.2 %	315
Grain	Black (Patent) Malt	0.25 kg (1.5%)	55 %	985
Grain	Fawcett - Crystal	0.25 kg (1.5%)	70 %	160
Grain	Fawcett - caramalt	0.5 kg (3.1%)	70 %	30

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	9 %
Boil	Boadicea	25 g	20 min	5.2 %
Boil	Boadicea	25 g	5 min	5.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
WLP028 - Edinburgh Scottish Ale Yeast	Ale	Slant	500 ml	White Labs