English Lager

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **39**
- SRM 4.6
- Style English IPA

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 90 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 51 C, Time 15 min
 Temp 62 C, Time 15 min
- Temp 72 C, Time 45 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 55.4C
- Add grains
- Keep mash 15 min at 51C
- Keep mash 15 min at 62C
- Keep mash 45 min at 72C
- Sparge using 19.2 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Castle Pale Ale	5 kg <i>(100%)</i>	80 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	40 min	10.5 %
Boil	lunga	20 g	40 min	10.5 %
Boil	Fuggles	20 g	15 min	5.3 %
Boil	East Kent Goldings	20 g	15 min	4.7 %
Boil	Fuggles	30 g	5 min	5.3 %
Boil	East Kent Goldings	30 g	5 min	4.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Slant	200 ml	Fermentum Mobile