

#17 Lutra Fake Lager

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **12**
- SRM **3.2**
- Style **Standard American Lager**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

Mash information

- Mash efficiency **88 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.1 liter(s)**
- Total mash volume **14.8 liter(s)**

Steps

- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **11.1 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3.7 kg (100%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	10 %
Whirlpool	lunga	20 g	0 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Kveik Lutra	Ale	Slant	400 ml	-

Notes

- Zadano starter w temp 34C 400ml 3 dniowy 07.05.2020r 22.10
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