

lunga Pils Lutra

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **44**
- SRM **4.5**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **0 %**
- Size with trub loss **13 liter(s)**
- Boil time **80 min**
- Evaporation rate **15 %/h**
- Boil size **17.2 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.4 liter(s)**
- Total mash volume **12.5 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **9.4 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Sparge using **10.9 liter(s)** of **76C** water or to achieve **17.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg (80%)	81 %	4
Grain	Monachijski	0.5 kg (16%)	80 %	16
Grain	Weyermann - Carapils	0.125 kg (4%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	15 min	11 %
Whirlpool	lunga	30 g	15 min	11 %