## Koźlak

- Gravity 16.6 BLG ABV 7 %
- IBU 23
- SRM **15.5**
- Style Traditional Bock

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

## **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.1 liter(s)
- Total mash volume 25.4 liter(s)

# **Steps**

- Temp **66 C**, Time **30 min** Temp **72 C**, Time **30 min**
- Temp 78 C, Time 10 min

## Mash step by step

- Heat up 19.1 liter(s) of strike water to 73.6C
- Add grains
- Keep mash 30 min at 66C
- Keep mash 30 min at 72C
- Keep mash 10 min at 78C
- Sparge using 13.7 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Monachijski	4 kg (63%)	80 %	16
Grain	Strzegom Monachijski typ II	1.5 kg <i>(23.6%)</i>	79 %	22
Grain	Viking melanoidynowy	0.4 kg <i>(6.3%)</i>	75 %	60
Grain	Weyermann Caramunich 3	0.3 kg <i>(4.7%)</i>	76 %	150
Grain	Special B Malt	0.15 kg <i>(2.4%)</i>	65.2 %	315

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	90 min	11 %
Boil	lunga	10 g	60 min	11 %
Boil	Hersbrucker	15 g	15 min	3 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Wyeast - Bavarian Lager	Lager	Slant	300 ml	Wyeast Labs

# **Extras**

Туре	Name	Amount	Use for	Time
Fining	whirlfloc	1 g	Boil	7 min