ZWIK Lager

- Gravity 10.5 BLG
- ABV 4.2 %
- IBU 53
- SRM **5**

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- Boil time 60 min
- Evaporation rate 5 %/h
- Boil size 24.3 liter(s)

Mash information

- Mash efficiency 60 %
- Liquor-to-grist ratio 3.2 liter(s) / kg
- Mash size 17 liter(s)
- Total mash volume 22.3 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 65 C, Time 30 min
 Temp 72 C, Time 20 min

- Temp 78 C, Time 2 min

Mash step by step

- Heat up 17 liter(s) of strike water to 57C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 30 min at 65C
- Keep mash 20 min at 72C
- Keep mash 2 min at 78C
- Sparge using 12.6 liter(s) of 76C water or to achieve 24.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.9 kg <i>(73.6%)</i>	80 %	5
Grain	Viking Munich Malt	0.8 kg <i>(15.1%)</i>	78 %	18
Grain	Briess - Carapils Malt	0.6 kg <i>(11.3%)</i>	74 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	60 min	13.5 %
Aroma (end of boil)	Lublin (Lubelski)	30 g	10 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	200 ml	