Koliber

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 27
- SRM **5.1**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 70 min
- Evaporation rate 15 %/h
- Boil size 32.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 20.7 liter(s)
- Total mash volume 26.6 liter(s)

Steps

- Temp **67 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 20.7 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 45 min at 67C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 17.5 liter(s) of 76C water or to achieve 32.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (84.7%)	79 %	6
Grain	Carahell	0.5 kg <i>(8.5%)</i>	77 %	26
Grain	Weyermann - Carapils	0.25 kg <i>(4.2%)</i>	78 %	4
Grain	Rye, Flaked	0.15 kg <i>(2.5%)</i>	78.3 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	10 g	60 min	13.1 %
Boil	Equinox	15 g	20 min	13.1 %
Aroma (end of boil)	Lublin (Lubelski)	25 g	10 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	10 g	Danstar

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	6 g	Boil	10 min