

# Kolsh

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **26**
- SRM **3.5**
- Style **Kölsch**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **16.5 liter(s)**

## Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.7 liter(s)**
- Total mash volume **11.6 liter(s)**

## Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **2 min**

## Mash step by step

- Heat up **8.7 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **2 min** at **78C**
- Sparge using **10.7 liter(s)** of **76C** water or to achieve **16.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg (86.2%)	81 %	4
Grain	Płatki orkiszowe	0.2 kg (6.9%)	60 %	4
Grain	Weyermann pszeniczny jasny	0.2 kg (6.9%)	80 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	11.5 %
Boil	Tettnanger	20 g	15 min	3.3 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - 2565 Kolsch	Ale	Liquid	5999.4 ml	Wyeast Labs

## Extras

Type	Name	Amount	Use for	Time
Finning	Mech irlandzki	15 g	Boil	15 min