

Saison

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **30**
- SRM **4.7**
- Style **Saison**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **80 min**
- Evaporation rate **12 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.1 liter(s)**
- Total mash volume **28.4 liter(s)**

Steps

- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **22.1 liter(s)** of strike water to **69.1C**
- Add grains
- Keep mash **45 min** at **63C**
- Keep mash **20 min** at **72C**
- Sparge using **12 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (60.6%)	81 %	4
Grain	Pszeniczny	1.5 kg (22.7%)	85 %	4
Grain	Monachijski	0.5 kg (7.6%)	80 %	16
Grain	Weyermann - Acidulated Malt	0.3 kg (4.5%)	80 %	6
Sugar	cukier trzcinowy	0.3 kg (4.5%)	--- %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Iunga	30 g	50 min	11 %
Whirlpool	Golding	50 g	0 min	5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM21 Odkrycie sezonu	Ale	Liquid	100 ml	Fermentum Mobile

Extras

Type	Name	Amount	Use for	Time
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Spice	kolendra	15 g	Boil	10 min
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