

Munich Helles

- Gravity **11.9 BLG**
- ABV ---
- IBU **22**
- SRM **4.5**
- Style **Munich Helles**

Batch size

- Expected quantity of finished beer **80 liter(s)**
- Trub loss **5 %**
- Size with trub loss **84 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **102.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **57.4 liter(s)**
- Total mash volume **76.6 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **57.4 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **64.4 liter(s)** of **76C** water or to achieve **102.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	15 kg (78.4%)	80 %	4
Grain	Strzegom Monachijski typ I	3.43 kg (17.9%)	79 %	16
Grain	Strzegom Pszeniczny	0.71 kg (3.7%)	81 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Junga	70 g	60 min	10 %
Boil	Saaz (Czech Republic)	100 g	5 min	3.4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager S-23	Lager	Slant	857.14 ml	Fermentis Division of S.I.Lesaffre