

Mirabelka i sour ipa

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **19**
- SRM **6.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **10 %**
- Size with trub loss **13.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **16.3 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.5 liter(s)**
- Total mash volume **14.8 liter(s)**

Steps

- Temp **71 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **11.5 liter(s)** of strike water to **78.3C**
- Add grains
- Keep mash **60 min** at **71C**
- Keep mash **5 min** at **76C**
- Sparge using **8.1 liter(s)** of **76C** water or to achieve **16.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.5 kg (75.8%)	80 %	4
Grain	Strzegom Pszeniczny	0.5 kg (15.2%)	81 %	6
Grain	Słód owsiany Fawcett	0.25 kg (7.6%)	61 %	5
Grain	Caraaroma	0.05 kg (1.5%)	78 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	50 min	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
Lallemand - WildBrew Philly Sour	Ale	Dry	11 g	Lallemand