

ipa

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **46**
- SRM **5.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

Steps

- Temp **66 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **70 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **15.1 liter(s)** of **76C** water or to achieve **30.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.5 kg (41.7%)	80 %	4
Grain	Strzegom Monachijski typ I	2 kg (33.3%)	79 %	16
Grain	Pszeniczny	0.5 kg (8.3%)	85 %	4
Grain	Strzegom Pale Ale	1 kg (16.7%)	79 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	30 g	50 min	13.2 %
Aroma (end of boil)	Citra	24 g	15 min	12 %
Dry Hop	Bramling	20 g	2 day(s)	6 %
Dry Hop	Epic	30 g	2 day(s)	5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11.5 g	Danstar