

Hoplita

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **11**
- SRM **3.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **40 min**
- Evaporation rate **10 %/h**
- Boil size **25.6 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **2.3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **17.2 liter(s)**

Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **77 C**, Time **0 min**

Mash step by step

- Heat up **12 liter(s)** of strike water to **72.3C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **10 min** at **72C**
- Keep mash **0 min** at **77C**
- Sparge using **18.8 liter(s)** of **76C** water or to achieve **25.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5.2 kg (100%)	90 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	10 g	10 min	13.4 %
Boil	Equinox	20 g	5 min	13.4 %
Aroma (end of boil)	falconer's flight	30 g	0 min	10.7 %
Aroma (end of boil)	Mosaic	30 g	0 min	11.5 %
Dry Hop	falconer's flight	30 g	5 day(s)	10.7 %
Dry Hop	Mosaic	30 g	5 day(s)	11.5 %
Dry Hop	Centennial	30 g	5 day(s)	9.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale