

Californication

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **69**
- SRM **3.8**
- 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 **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **25 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **20 liter(s)** of strike water to **71.8C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **11.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg (50%)	80 %	5
Grain	Pilzneński	2.5 kg (50%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	10 g	55 min	13 %
Boil	Citra	10 g	55 min	12 %
Aroma (end of boil)	Mosaic	60 g	10 min	10 %
Aroma (end of boil)	Chinook	20 g	10 min	13 %
Aroma (end of boil)	Citra	20 g	10 min	12 %
Dry Hop	Mosaic	30 g	14 day(s)	10 %
Dry Hop	Citra	90 g	14 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Liquid	20 ml	Fermentum Mobile
starter drożdżowy				