

## West Coast IPA v9 #68

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- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **55**
- SRM **4.2**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.6 liter(s)**
- Boil time **100 min**
- Evaporation rate **15 %/h**
- Boil size **27.5 liter(s)**

### Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3.93 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **25.1 liter(s)**

### Steps

- Temp **66 C**, Time **70 min**
- Temp **77 C**, Time **7 min**

### Mash step by step

- Heat up **20 liter(s)** of strike water to **71.9C**
- Add grains
- Keep mash **70 min** at **66C**
- Keep mash **7 min** at **77C**
- Sparge using **12.6 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking pilzneński	3 kg (58.8%)	80 %	4
Grain	Viking pale ale	2.1 kg (41.2%)	79 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	15 g	60 min	14.7 %
Aroma (end of boil)	Simcoe	20 g	15 min	13.3 %
Aroma (end of boil)	Amarillo	20 g	10 min	8.7 %
Aroma (end of boil)	Simcoe	30 g	5 min	13.3 %
Aroma (end of boil)	Amarillo	15 g	1 min	8.7 %
Aroma (end of boil)	Citra	15 g	1 min	13.7 %
Aroma (end of boil)	Mosaic	15 g	1 min	12.1 %
Dry Hop	Amarillo	40 g	3 day(s)	8.7 %
Dry Hop	Citra	40 g	3 day(s)	13.7 %
Dry Hop	Simcoe	40 g	3 day(s)	13.3 %
Dry Hop	Mosaic	20 g	3 day(s)	12.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM52	Ale	Liquid	140 ml	Fermentum Mobile

### Extras

Type	Name	Amount	Use for	Time
Water Agent	gips	2 g	Mash	---
Water Agent	kwask mlekowy 80% [ml]	5.74 g	Mash	---
Water Agent	chlorek wapnia [ml]	5.16 g	Mash	---
Water Agent	epsom	1 g	Mash	---
Water Agent	mech irlandzki	3 g	Boil	5 min