

West Coast Double IPA Single Hop Cenntennial

- Gravity **20.5 BLG**
- ABV ---
- IBU **80**
- SRM **5.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **27 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilznieński	5 kg (55.6%)	81 %	4
Grain	Pszeniczny	1 kg (11.1%)	85 %	4
Grain	Viking Pale Ale malt	3 kg (33.3%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	80 g	15 min	10.5 %
Boil	Centennial	80 g	8 min	10.5 %
Whirlpool	Centennial	80 g	60 min	10.5 %
Dry Hop	Centennial	160 g	3 day(s)	10.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Liquid	1500 ml	Fermentum Mobile

starter drożdżowy dwu stopniowy mieszany ręcznie.
1,3litra plus 1,5litra daje około 300