

Czeska California

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **37**
- SRM **5.2**
- Style **California Common Beer**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **63 C**, Time **40 min**
- Temp **73 C**, Time **20 min**
- Temp **78 C**, Time **3 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **73C**
- Keep mash **3 min** at **78C**
- Sparge using **17 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (83.3%)	80 %	4
Grain	Monachijski	0.5 kg (8.3%)	80 %	16
Grain	Karmelowy Jasny 30EBC	0.5 kg (8.3%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	80 g	60 min	4 %
Boil	Saaz (Czech Republic)	30 g	20 min	4 %
Aroma (end of boil)	Saaz (Czech Republic)	20 g	1 min	4 %
Dry Hop	Saaz (Czech Republic)	20 g	7 day(s)	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Californian Lager M54	Lager	Dry	10 g	Mangrove Jack's