

BIG SUR

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **62**
- SRM **4.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **35.8 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **32 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **24 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **5 min** at **78C**
- Sparge using **19.8 liter(s)** of **76C** water or to achieve **35.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Pale Malt (2 Row) US | 6.5 kg (81.3%) | 79 % | 4 |
| Grain | Caramel/Crystal Malt - 10L | 0.5 kg (6.3%) | 75 % | 20 |
| Grain | Pszeniczny | 1 kg (12.5%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 30 g | 60 min | 15.5 % |
| Boil | Simcoe | 20 g | 30 min | 13.2 % |
| Aroma (end of boil) | Amarillo | 15 g | 15 min | 9.5 % |
| Aroma (end of boil) | Simcoe | 15 g | 15 min | 13.2 % |
| Aroma (end of boil) | Cascade | 20 g | 5 min | 6 % |
| Aroma (end of boil) | Citra | 20 g | 5 min | 12 % |
| Dry Hop | Amarillo | 20 g | 7 day(s) | 9.5 % |
| Dry Hop | Cascade | 20 g | 7 day(s) | 6 % |
| Dry Hop | Citra | 20 g | 7 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-------------------------------|-----|--------|---------|------------|
| WLP001 - California Ale Yeast | Ale | Liquid | 1000 ml | White Labs |
|-------------------------------|-----|--------|---------|------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 5 g | Boil | 15 min |