

## milion ibu

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- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **100**
- SRM **6.6**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **50 liter(s)**
- Trub loss **5 %**
- Size with trub loss **52.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **63.3 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **48 liter(s)**
- Total mash volume **64 liter(s)**

### Fermentables

| Type  | Name                   | Amount       | Yield | EBC |
|-------|------------------------|--------------|-------|-----|
| Grain | Briess - Pale Ale Malt | 12 kg (75%)  | 80 %  | 7   |
| Grain | Monachijski            | 3 kg (18.8%) | 80 %  | 16  |
| Grain | Pszeniczny             | 1 kg (6.3%)  | 85 %  | 4   |

### Hops

| Use for | Name       | Amount | Time     | Alpha acid |
|---------|------------|--------|----------|------------|
| Boil    | Simcoe     | 50 g   | 60 min   | 13.2 %     |
| Boil    | Mosaic     | 50 g   | 60 min   | 10 %       |
| Boil    | Simcoe     | 50 g   | 30 min   | 13.2 %     |
| Boil    | Mosaic     | 50 g   | 30 min   | 11 %       |
| Boil    | Citra      | 50 g   | 18 min   | 13 %       |
| Boil    | Citra      | 50 g   | 5 min    | 13 %       |
| Dry Hop | Centennial | 100 g  | 3 day(s) | 9.7 %      |
| Dry Hop | Cascade    | 100 g  | 3 day(s) | 4.5 %      |

### Yeasts

| Name                        | Type | Form   | Amount | Laboratory       |
|-----------------------------|------|--------|--------|------------------|
| FM54 Gorączka kalifornijska | Ale  | Liquid | 100 ml | Fermentum Mobile |