

#10 New England PALE ALE

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **43**
- SRM **3.9**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.1 liter(s) / kg**
- Mash size **17.6 liter(s)**
- Total mash volume **21.9 liter(s)**

Steps

- Temp **66 C**, Time **55 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **17.6 liter(s)** of strike water to **71.6C**
- Add grains
- Keep mash **55 min** at **66C**
- Keep mash **10 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **14.2 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 4.3 kg (81.1%) | 80 % | 5 |
| Adjunct | Platki owsiane | 1 kg (18.9%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil | Simcoe | 10 g | 50 min | 13.2 % |
| Boil | Amarillo | 10 g | 50 min | 9.5 % |
| Boil | Simcoe | 10 g | 15 min | 13.2 % |
| Boil | Amarillo | 10 g | 15 min | 9.5 % |
| Aroma (end of boil) | Simcoe | 10 g | 0 min | 13.2 % |
| Aroma (end of boil) | Amarillo | 10 g | 0 min | 9.5 % |
| Whirlpool | Simcoe | 20 g | 15 min | 13.2 % |
| Whirlpool | Amarillo | 20 g | 15 min | 9.5 % |
| Dry Hop | Simcoe | 25 g | 5 day(s) | 13.2 % |
| Dry Hop | Amarillo | 25 g | 5 day(s) | 9.5 % |
| Dry Hop | Simcoe | 25 g | 2 day(s) | 13.2 % |
| Dry Hop | Amarillo | 25 g | 2 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|--------|------------------|
| FM55 Zielone Wzgórze | Ale | Liquid | 30 ml | Fermentum Mobile |