

Imperial Tormodgarden IPA

- Gravity **19.1 BLG**
- ABV **8.3 %**
- IBU **109**
- SRM **6.1**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **10 %**
- Size with trub loss **11.5 liter(s)**
- Boil time **80 min**
- Evaporation rate **35 %/h**
- Boil size **19.1 liter(s)**

Mash information

- Mash efficiency **53 %**
- Liquor-to-grist ratio **3.9 liter(s) / kg**
- Mash size **23.2 liter(s)**
- Total mash volume **29.2 liter(s)**

Steps

- Temp **60 C**, Time **1 min**
- Temp **64 C**, Time **70 min**
- Temp **72 C**, Time **25 min**
- Temp **77 C**, Time **3 min**

Mash step by step

- Heat up **23.2 liter(s)** of strike water to **65.1C**
- Add grains
- Keep mash **1 min** at **60C**
- Keep mash **70 min** at **64C**
- Keep mash **25 min** at **72C**
- Keep mash **3 min** at **77C**
- Sparge using **1.9 liter(s)** of **76C** water or to achieve **19.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|-----------------|-------|-----|
| Grain | Mep@ Pils | 2.5 kg (41.6%) | 82 % | 4 |
| Grain | Simpsons - Golden Promise | 2.35 kg (39.1%) | 81 % | 4 |
| Grain | Wheat, Torrified | 0.55 kg (9.1%) | 79 % | 4 |
| Grain | Platki owsiane | 0.55 kg (9.1%) | 85 % | 3 |
| Sugar | Cukier | 0.063 kg (1%) | 100 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|------------|-------------------|--------|----------|------------|
| First Wort | lunga Polish Hops | 20 g | 80 min | 10 % |
| Boil | Sultana | 10 g | 30 min | 13.9 % |
| Whirlpool | Kohatu | 30 g | 25 min | 5.7 % |
| Whirlpool | Sultana | 20 g | 25 min | 13.9 % |
| Whirlpool | Idaho 7 | 20 g | 25 min | 13.5 % |
| Whirlpool | El Dorado | 35 g | 25 min | 11 % |
| Dry Hop | Citra | 50 g | 3 day(s) | 13.7 % |

| | | | | |
|---------|-----------|------|----------|--------|
| Dry Hop | El Dorado | 30 g | 3 day(s) | 11 % |
| Dry Hop | Idaho 7 | 30 g | 3 day(s) | 13.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Tormodgarden | Ale | Slant | 5 ml | Kveik |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|------|--------|---------|--------|
| Water Agent | Gips | 7 g | Mash | 95 min |

Notes

- 10l Oaza
15,2l przegotowana kranówka
1FQ3NSK - Brewersfriend.com
Ca - 88,2
Mg - 12,8
Na - 65,1
Cl - 85,8
SO4 - 198,1
alk.rez - 40,8
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