

11A SKULL CANDY brewdog

- Gravity **9 BLG**
- ABV **3.5 %**
- IBU **27**
- SRM **7.5**
- Style **Standard/Ordinary Bitter**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **24.7 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **5.35 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **21.4 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **10.1 liter(s)** of **76C** water or to achieve **24.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|-----------------|-------|-----|
| Grain | Simpsons - Maris Otter | 2.55 kg (75.7%) | 81 % | 6 |
| Grain | Karmelowy Jasny 30EBC | 0.55 kg (16.3%) | 75 % | 30 |
| Grain | Strzegom Karmel 150 | 0.27 kg (8%) | 75 % | 150 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil | East Kent Goldings | 25 g | 60 min | 5.1 % |
| Aroma (end of boil) | Challenger | 25 g | 15 min | 7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 10 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------|--------|---------|--------|
| Water Agent | CaSO4 | 4 g | Boil | 60 min |