

Christmas ALE

- Gravity **21.6 BLG**
- ABV **10.6 %**
- IBU **21.6**
- SRM **40**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **0 %**
- Size with trub loss **25 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.8 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 **53 C**, Time **15 min**
- Temp **65 C**, Time **40 min**
- Temp **74 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **24 liter(s)** of strike water to **58.5C**
- Add grains
- Keep mash **15 min** at **53C**
- Keep mash **40 min** at **65C**
- Keep mash **20 min** at **74C**
- Keep mash **10 min** at **78C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **31.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|--------------------------------------|--------|-------|------|
| Grain | Słód Pale Ale Viking Malt | 3.5 kg | 80 % | 15 |
| Grain | Słód Pilzneński Viking Malt | 2 kg | 80 % | 9 |
| Grain | Słód Monachijski Jasny Viking Malt | 1 kg | 78 % | 41 |
| Grain | Palone Ziarno Jęczmienia Viking Malt | 0.4 kg | 71 % | 2800 |
| Grain | Słód Biscuit Castlemalting | 0.2 kg | 77 % | 119 |
| Grain | Słód Karmelowy 50EBC Viking Malt | 0.1 kg | 75 % | 156 |
| Grain | Słód Czekoladowy Ciemny Viking Malt | 0.3 kg | 67 % | 3201 |
| Grain | Słód Gryczany Castlemalting | 0.5 kg | 70 % | 105 |
| Adjunct | Płatki Owsiane | 0.2 kg | 75 % | 7 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| | Iunga PL | 25 g | 60 min | 11 % |
| | East Kent Goldings UK | 25 g | 10 min | 6.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------|------|------|--------|------------|
| Fermentis US-05 | | | 10 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|------|----------|--------|---------|------|
| | Kolendra | 1 g | | --- |