

RYE IPA # 2

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **55**
- SRM **4.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **10 %**
- Size with trub loss **27.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **33 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **28 liter(s)**
- Total mash volume **36 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **28 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **5 min** at **78C**
- Sparge using **13 liter(s)** of **76C** water or to achieve **33 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---|----------------|-------|-----|
| Grain | Słód Pilsner® 2,5-4,5 EBC Weyermann | 5.5 kg (68.8%) | 80 % | 4 |
| Grain | Weyermann - Rye Malt | 2 kg (25%) | 85 % | 7 |
| Grain | Viking Wheat Malt | 0.5 kg (6.3%) | 83 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------------|--------|----------|------------|
| Boil | Warrior | 50 g | 25 min | 15.5 % |
| Boil | Nelson Sauvín | 50 g | 5 min | 11 % |
| Boil | Nelson Sauvín | 55 g | 1 min | 11 % |
| Boil | Mosaic | 55 g | 1 min | 10 % |
| Boil | Sabro | 55 g | 1 min | 15 % |
| Dry Hop | Mosaic | 45 g | 2 day(s) | 10 % |
| Dry Hop | Nelson Sauvín | 45 g | 2 day(s) | 11 % |
| Dry Hop | Sabro | 45 g | 2 day(s) | 15 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-------|--------|-----------|
| Safale US-05 | Ale | Slant | 125 ml | Fermentis |
|--------------|-----|-------|--------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-----------------|--------|---------|--------|
| Fining | Whirfloc | 1 g | Boil | 10 min |
| Water Agent | Gips piwowarski | 4 g | Mash | 60 min |