

## miki dee

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- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **25**
- SRM **4.8**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **40 liter(s)**
- Trub loss **5 %**
- Size with trub loss **44 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **52.8 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **35 liter(s)**
- Total mash volume **45 liter(s)**

### Steps

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

### Mash step by step

- Heat up **35 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **27.8 liter(s)** of **76C** water or to achieve **52.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	10 kg (100%)	85 %	7

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Boil	Mosaic	25 g	20 min	10 %
Boil	Mosaic	25 g	5 min	10 %
Whirlpool	Motueka	50 g	0 min	7 %

### Yeasts

Name	Type	Form	Amount	Laboratory
WLP005 - British Ale Yeast	Ale	Slant	200 ml	White Labs