# Record 16: My ebulliometer accuracy checks for measuring alcohol strength in brewed soft drinks

If you produce less than 100,000 litres of brewed soft drink in a calendar year, it is permissible to use an ebulliometer and a formula to measure the alcoholic strength of your brewed soft drink, provided it is supported by the testing process set out below.

The steps to follow to test your ebulliometer accuracy are:

1. Write down your practice and any calculations and formulas you use here for calculating the alcohol strength of your product using a hydrometer and formula.
2. Provide certificates of analysis (COA) stating the alcohol strength of your products, including the variance, in three samples from three concurrent batches of your product (that is, nine tests in total). Certificates must be from a NATA accredited laboratory.
3. Compare your ebulliometer results to lab COAs of the same batch, to validate your testing procedure.
4. Validate your results annually.

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| **Write down your practice and any calculations and formulas you use here for calculating the alcohol strength of your product using a ebulliometer and formula.** |
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Use this record to validate testing method, repeat annually. Three samples from three concurrent batches of your product (that is, nine tests in total) must be tested

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| **Which year are these results for?** | | | |  | | | | | |
| **Test #** | **Date** | **Batch ID** | **Result A:**  **Alcohol strength determined by ebulliometer and formula (%)** | | | **Result B:**  **Alcohol strength determined by a NATA accredited laboratory (%)\*** | | **Variance: Difference between result A & B** | **Is the variance greater than 0.3%?**  **Yes or no?** |
| 1 |  |  | **Sample 1** | |  | **Sample 1** |  |  |  |
| **Sample 2** | |  | **Sample 2** |  |  |  |
| **Sample 3** | |  | **Sample 3** |  |  |  |
| 2 |  |  | **Sample 1** | |  | **Sample 1** |  |  |  |
| **Sample 2** | |  | **Sample 2** |  |  |  |
| **Sample 3** | |  | **Sample 3** |  |  |  |
| 3 |  |  | **Sample 1** | |  | **Sample 1** |  |  |  |
| **Sample 2** | |  | **Sample 2** |  |  |  |
| **Sample 3** | |  | **Sample 3** |  |  |  |
| Is the variance greater than 0.3% for any of the nine samples in this table?  **Yes or no?** If yes, you will need to repeat the validation process.  \* Your certificates of analysis must be attached to this record. | | | | | | | | | |