

The logo for CO2Sustain, featuring the text "CO₂Sustain" in white on a red rounded rectangular background.

CO₂Sustain[®]

Increasing the
carbonation level of
tonic water



Objectives

- To increase the carbonation level of tonic waters



Sample preparation

- Tonic without CO₂Sustain® was re-carbonated on an Armfield carbonator to 8.5g/l (sample A)
- Tonic with 0.1g/l CO₂Sustain® was re-carbonated on an Armfield carbonator to 8.5g/l (sample B)
- Samples were filled into glass bottles and refrigerated overnight



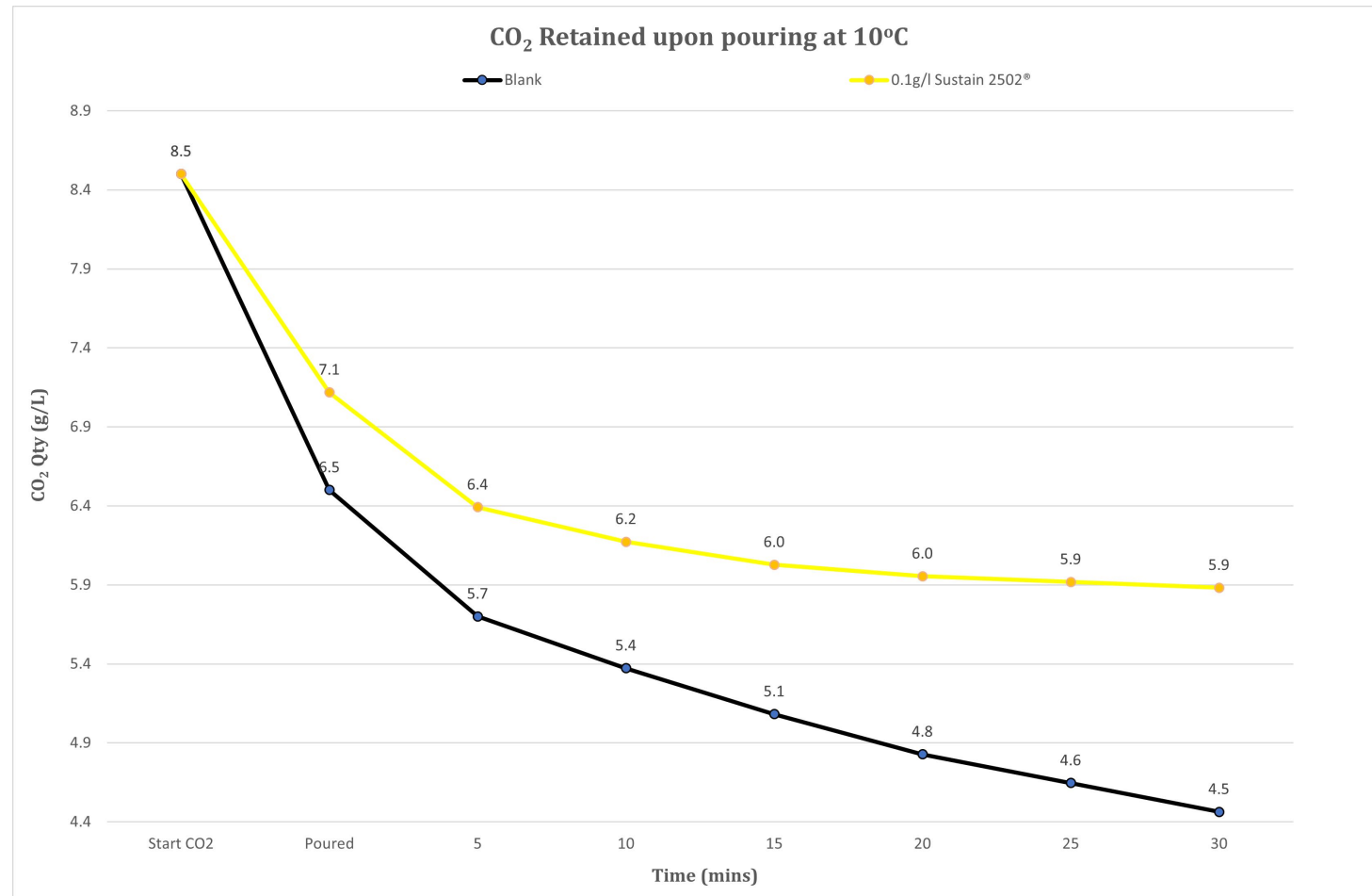
Test methods

- A sensory panel (8 people) completed a blind taste test where the participants were asked whether the Sustain sample (A) was:
 - Less fizzy than sample B
 - Fizzier than sample B
 - No difference
- The bottles were then tested for carbon dioxide loss on pouring
- The 275ml sample bottle was poured gently into a glass vessel on an analytical balance
- The weight of CO₂ lost was recorded over a 30-minute period



Results - Sensory

- Of the 8 panelists, 8 people recorded the sample with CO₂Sustain® as still being fizzier
- Nobody recorded no difference



Results – Carbon dioxide retention on pouring

- The graph shows that the sample with CO₂Sustain® retained more CO₂ when poured
- At the point of pouring, the sample without CO₂Sustain® dropped to 6.5g whereas the drink with CO₂Sustain® only dropped to 7.1g
- The final level of carbon dioxide retained after 30-minutes was 1.4g extra with CO₂Sustain® (31%)



Conclusion

- The addition of CO₂Sustain gives the consumer a much fizzier drink experience over 30-minutes



Next step – Taste Trial

- We will be sending you a box of samples so you can run your own taste test trials
- Please remember to refrigerate the samples before tasting



Taste trial - Pour

- At an angle of 45 degrees and at a consistent speed pour equal quantities of beverage (200ml) into each glass
- Please remember to use pint glasses for your pouring trial
- Please remember to refrigerate the samples before tasting



Taste trial - Taste

- Taste the contents of each glass, taking big sips and retaining the liquid in the mouth for a few seconds
- Take note of the difference in carbonation
- Repeat this taste testing again after 15 minutes have elapsed.



Thank you for your interest in
CO₂ Sustain®

Feel free to contact us with any
questions by emailing:
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