

**CO<sub>2</sub>Sustain<sup>®</sup>**

# Increasing the Carbonisation level with CO<sub>2</sub>Sustain<sup>®</sup>

**Drink Type: Energy Drink** (Full Sugar)

# Objective

- To increase the carbonation level of energy drink



# Sample Preparation

- Energy drink without  $\text{CO}_2\text{Sustain}^{\text{®}}$  was re-carbonated on an Armfield carbonator to 6.0g/l (sample A)
- Energy drink with 0.4g/l  $\text{CO}_2\text{Sustain}^{\text{®}}$  was re-carbonated on an Armfield carbonator to 6.0g/l (sample B)
- Samples were filled into glass bottles and refrigerated overnight





A sensory panel of **8 participants** completed a blind taste test asking:

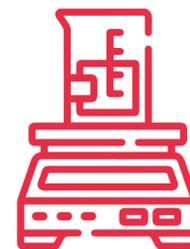
How would you describe the CO<sub>2</sub>Sustain<sup>®</sup> sample?

- A. Less fizzy than sample B (blank)
- B. More fizzy than sample B
- C. No difference

# Test Methods



The participants drank directly from the bottle. The bottles were then tested for carbon dioxide loss on pouring.



The 330ml sample bottle was poured gently into a glass vessel on an analytical balance.

The weight of CO<sub>2</sub> lost was recorded over a 30 minute period.

# Sensory Experience

8

All 8 people recorded the sample of CO<sub>2</sub>Sustain® as being fizzier

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None of the panel recorded no difference



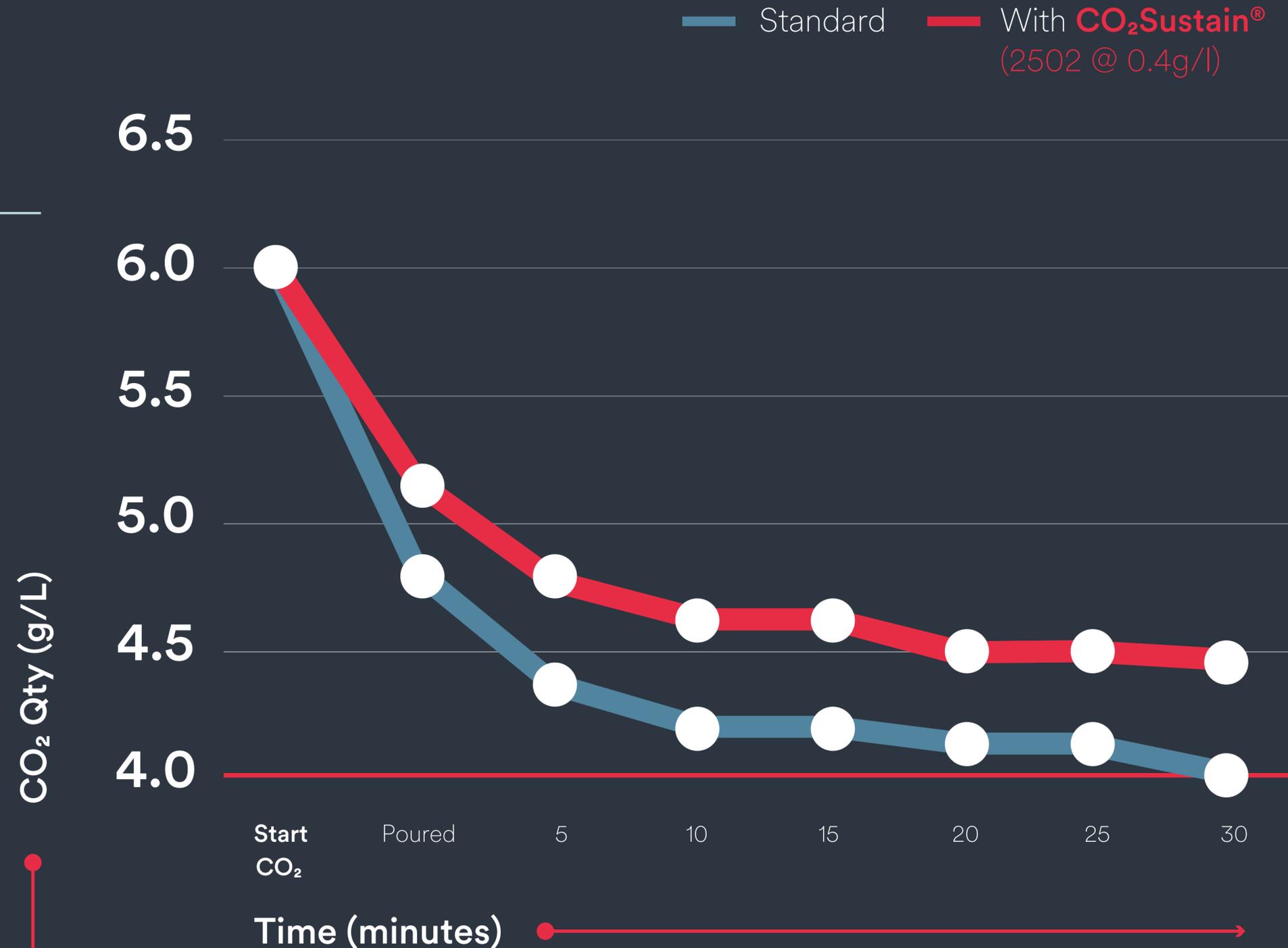
## Results

The graph shows that the sample with **CO<sub>2</sub>Sustain<sup>®</sup>** retained CO<sub>2</sub> more when poured.

At the point of pouring, the sample without **CO<sub>2</sub>Sustain<sup>®</sup>** dropped to 4.8g whereas the drink with **CO<sub>2</sub>Sustain<sup>®</sup>** only dropped to 5.1g

The final level of carbon dioxide retained after 30-minutes was 0.5g extra with **CO<sub>2</sub>Sustain<sup>®</sup>**

# CO<sub>2</sub> Retention on Pouring



# Our Conclusion

## Energy Drink Carbonation Test

The addition of **CO<sub>2</sub>Sustain<sup>®</sup>** gives the consumer a much fizzier drink experience over 30-minutes.



# Thank you.

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Brookfoot House,  
Low Lane, Horsforth,  
Leeds LS18 5PU  
United Kingdom

**W:** [www.co2sustain.com](http://www.co2sustain.com)  
**T:** +44 (0) 113 205 0971  
**E:** [info@co2sustain.com](mailto:info@co2sustain.com)

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