



With or without

HydroFresh

Weight loss
comparison test

May 2025

Weight loss comparison test

Date: May 2025

Overview:

This study quantifies the weight loss due to dehydration of produce without the use of our nebulization technology, comparing the losses when our system is applied, reproducing the usual conditions we preset in the stores, with the misting programmed in intervals of 240 sec. active and 240 sec. inactive.

Also, providing images to compare the aspect of treated vs. untreated products under the same conditions.

The test and assessment was run by a cross-functional team from our Quality & Research Samarketing s.l. departments.

Methodology:

5 types of vegetables samples from the same harvest origin and conditions are grouped in pairs to check weight variations during a period of 10 hours and compare results (initial weight and final weight of each piece as shown in the scale panel).

An electronic calibrated *Jata Model 729-V* scale is used (as seen in the pictures)

The study displays the total variations in weight after 10 hours

Location: Premià de Dalt, Barcelona

Room temperature: 19,6 °Celsius (indoor) Ambient RH: 56%

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Weight test and results
(after 10 hours)

Weighing records (grs.)

Treated



Untreated



Weighing records (grs.)

Treated



Untreated



Weighing records (grs.)

Treated



Untreated



Weighing records (grs.)

Treated



Untreated



Weighing records (grs.)

Treated



Untreated








Weighing records and results

Date: 5/04/2025
 Room temperature: 19,6°C
 Time: 10:00 to 20:00
 Weight expressed in Grs..

Values

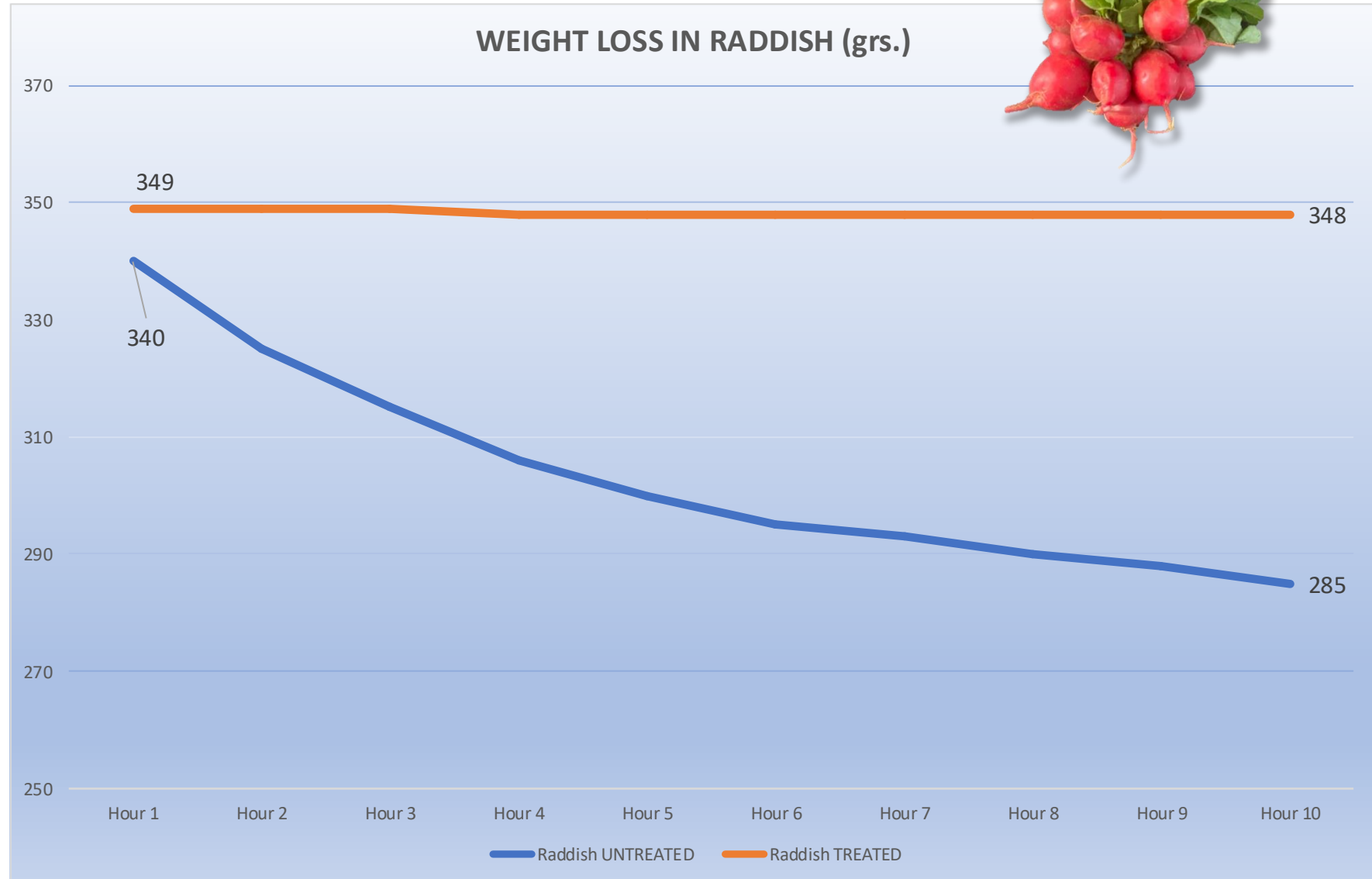
Values

| PRODUCT | TREATED SAMPLES | | | Percentage | UNTREATED SAMPLES | | |
|--|-----------------|--------------|-------|------------|-------------------|----------------|---|
| | INITIAL WEIGHT | FINAL WEIGHT | % | | INITIAL WEIGHT | INITIAL WEIGHT | % |
|  RADDISH | 349 | 348 | -0,29 | 340 | 285 | -16,18 | |
|  CARROT | 773 | 770 | -0,39 | 830 | 683 | -17,71 | |
|  CHARD | 619 | 619 | 0,00 | 649 | 541 | -16,64 | |
|  LETTUCE | 483 | 480 | -0,62 | 525 | 429 | -18,29 | |
|  RED OAK LEAF LETTUCE | 319 | 315 | -1,25 | 306 | 256 | -16,34 | |

| | |
|-------------------------------------|------|
| Untreated group average weight loss | 17% |
| Treated group average weight loss | 0,5% |

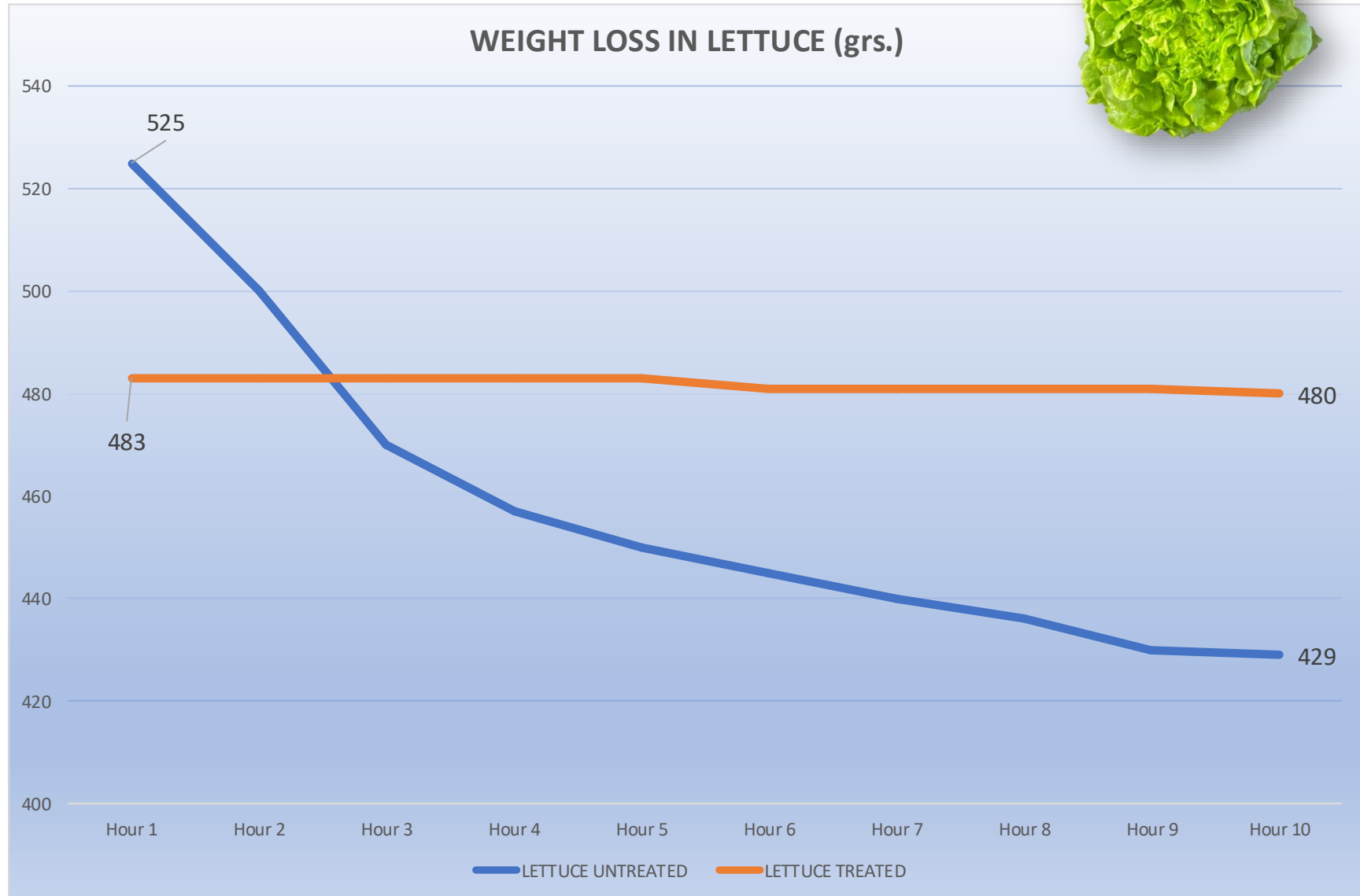


Weight loss comparison charts: Raddish



Weight loss comparison charts: Lettuce

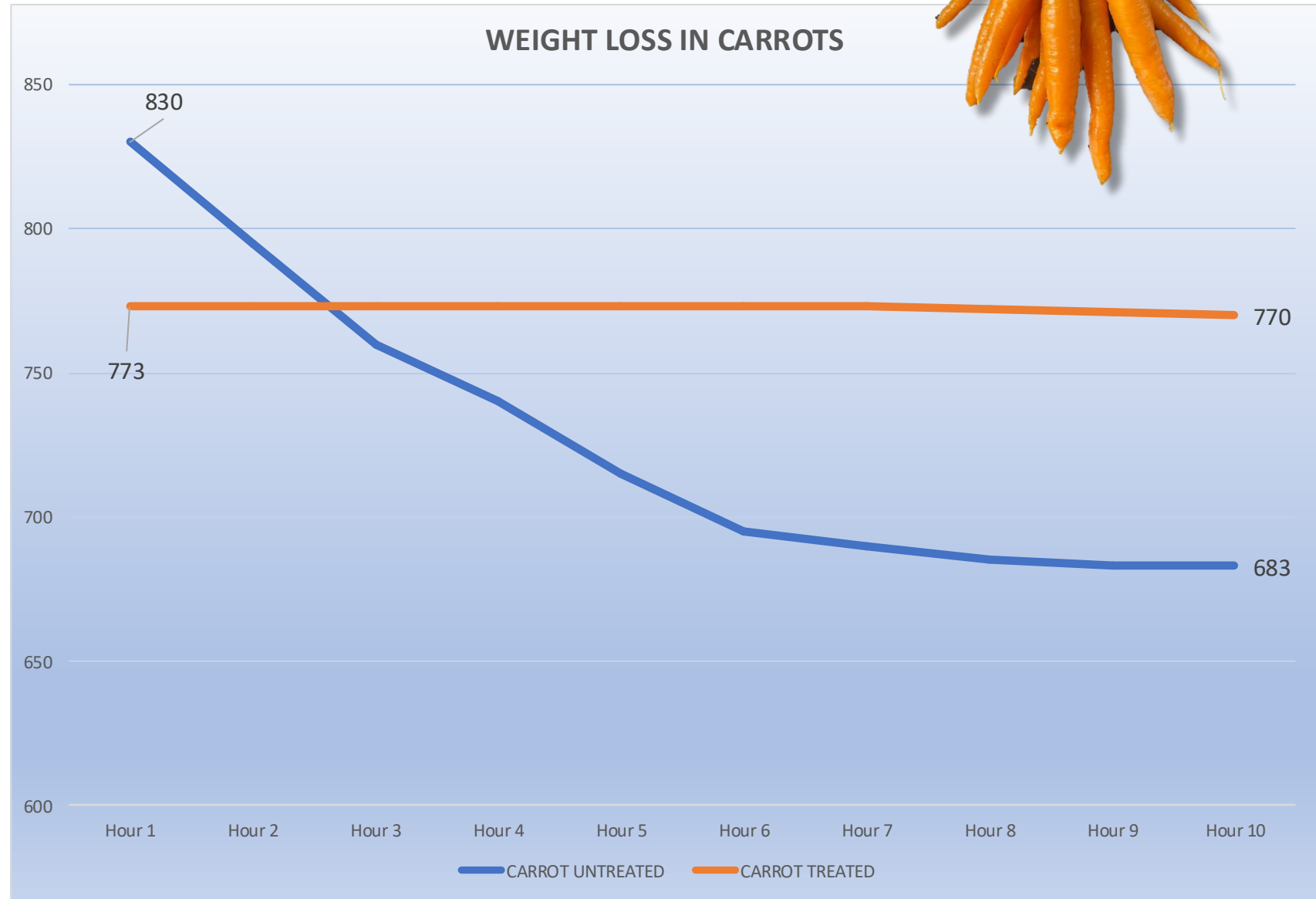
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Weight loss comparison charts: Red oak leaf lettuce

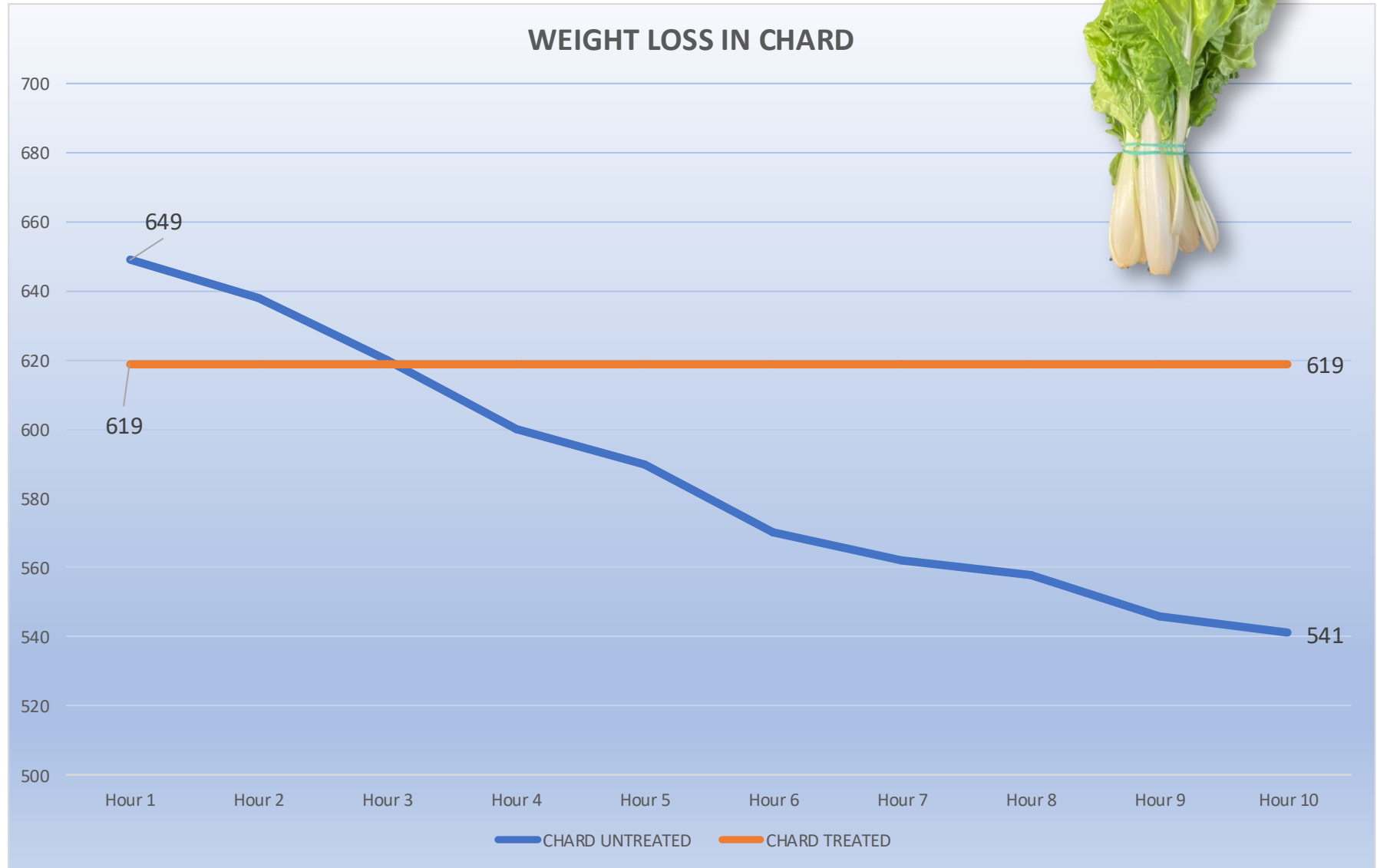


Weight loss comparison charts: Carrots



Weight loss comparison charts: Chard

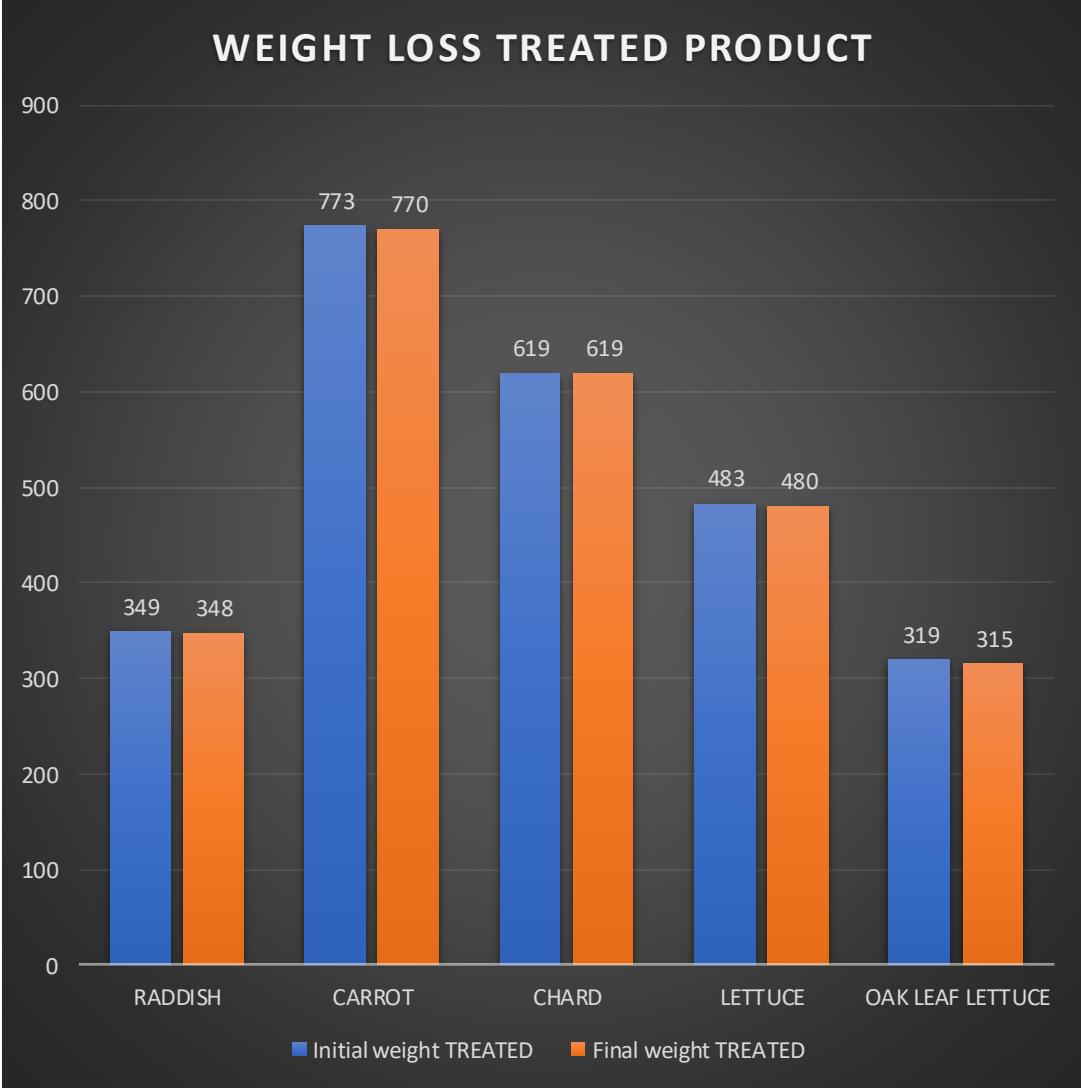
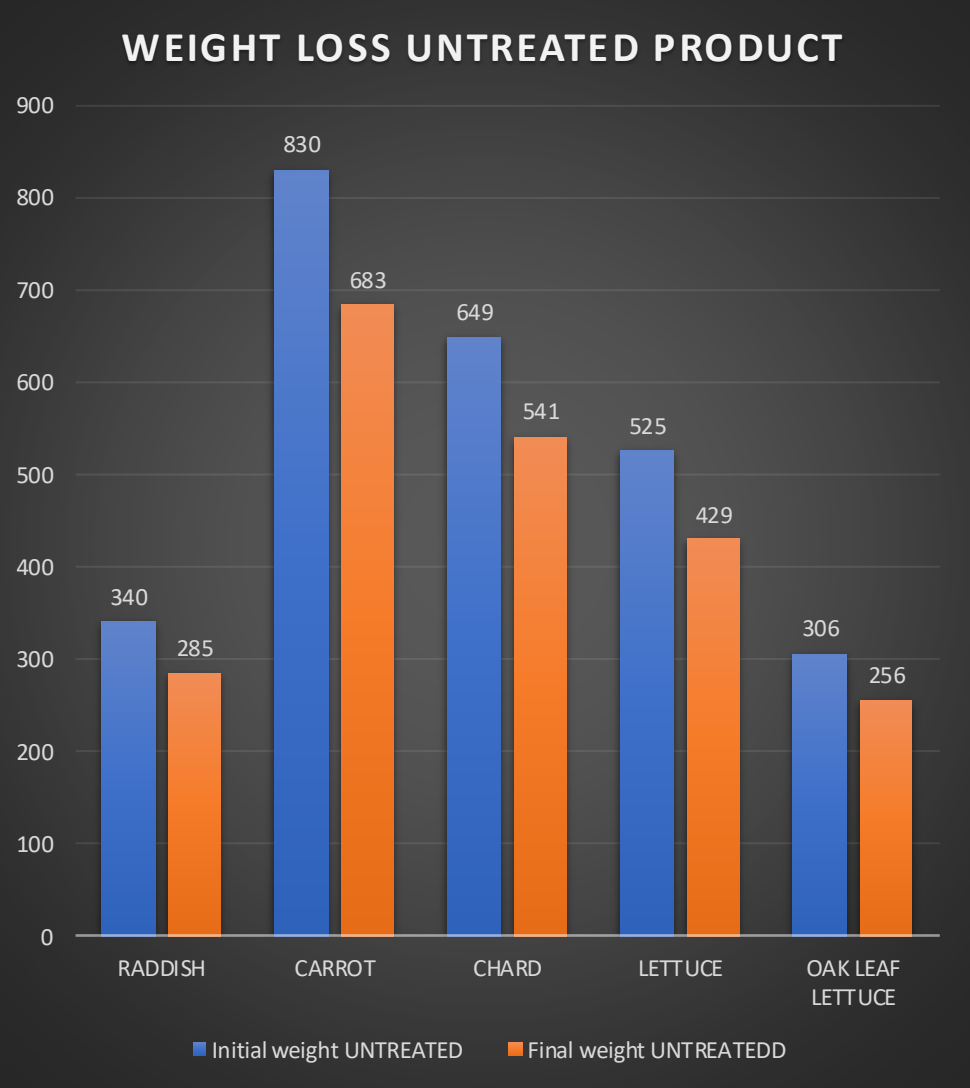
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Compared charts (weight losses) (10h)

Initial weight

Final weight



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Aspect Comparison

(after 10 hours)

Aspect Comparison (after 10 hours)



TREATED



UNTREATED

Aspect Comparison (after 10 hours)



TREATED



UNTREATED

Aspect Comparison (after 10 hours)



TREATED



UNTREATED

Aspect Comparison (after 10 hours)

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TREATED



UNTREATED

Aspect Comparison (after 10 hours)



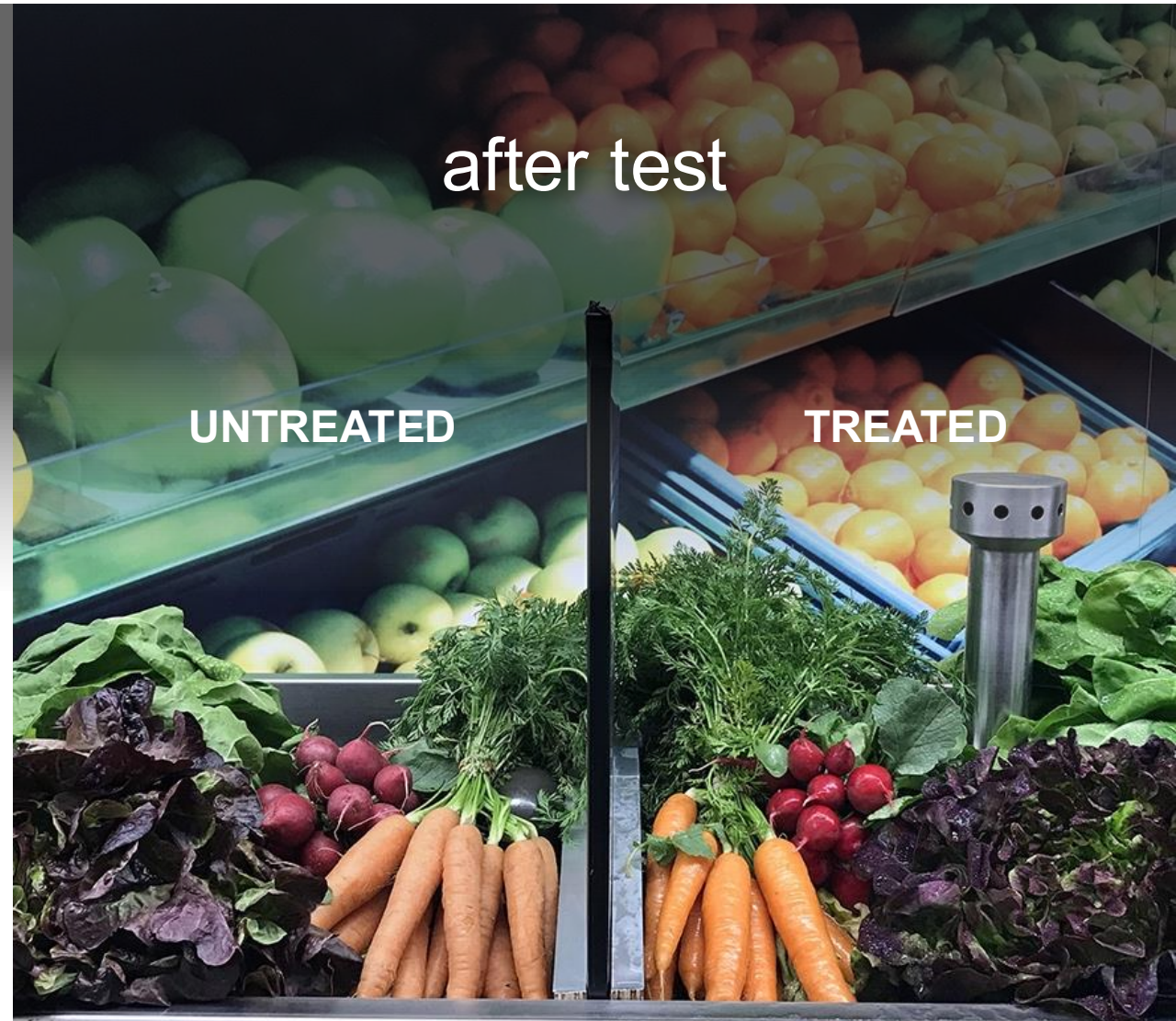
TREATED



UNTREATED

General aspect comparison of the two groups before and after the test

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TEST CONCLUSIONS

1. Our Hydrofresh misting systems **reduces weight loss in an average of 16,5%** after 10 hours of shelf display.
2. With our system, the attractive aspect and texture of the product last significantly longer, as well as its organoleptic and nutritional values.

**Your customer wants
the most of freshness.
Don't you?**

HydroFresh

www.hydrofresh.es

Contact: info@hydrofresh.es