



# SCIENTIFIC TEST RESULTS

The below studies have been carried out by the Laboratory for Food & Health in accordance with the European Union Directive 98/83/EC on both filtered & unfiltered water (tap water). A further test confirms the antibacterial properties of our copper water bottles. The laboratory tests allow us to prove the vitalizing benefits of our copper water bottles & their purity.

Test result findings & summary as below:

## TEST 1

### BOTTLES TESTED WITH UNFILTERED WATER

The test has been conducted using unfiltered water, i.e. tap water. The first test has been conducted at an initial stage of 0 hours. The test continues for 36 hours.

| TEST CONDUCTED | DURATION:<br>0 HOURS | DURATION:<br>6 HOURS | DURATION:<br>12 HOURS | DURATION:<br>24 HOURS | DURATION:<br>36 HOURS |
|----------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| PH - VALUE     | 7.10                 | 7.32                 | 7.50                  | 8.10                  | 7.80                  |
| ALKALINITY     | 116.00 mg/l          | 122.00 mg/l          | 150.00 mg/l           | 201.00 mg/l           | 152.00 mg/l           |
| COPPER VALUES  | 0.16 mg/l            | 0.43 mg/l            | 0.70 mg/l             | 0.90 mg/l             | 0.81 mg/l             |

## TEST SUMMARY

- The pH-value of water rises continuously upto a storage time of 24 hours. After 24 hours, the pH-value sinks slightly. With this test, we can scientifically prove that copper increases the pH levels in water, even within unfiltered water. This study helps us to prove that Forrest & Love Copper Bottles make water more alkaline.
- The test observations prove, that with unfiltered water, copper content is absorbed well upto 36 hours. Important to note is that the copper content in water remains low even after 36 hours & is far below the permissible limit as per WHO guideline of 2.0 mg/l. This shows that even after a long storage period, the water from our bottles is safe for drinking.

## TEST 2

### BOTTLES TESTED WITH FILTERED WATER

The tests have been conducted using filtered water. The first test has been conducted at an initial stage of 6 hours. The test continues for 36 hours.

| TEST CONDUCTED | DURATION:<br>6 HOURS | DURATION:<br>12 HOURS | DURATION:<br>24 HOURS | DURATION:<br>36 HOURS |
|----------------|----------------------|-----------------------|-----------------------|-----------------------|
| PH - VALUE     | 7.65                 | 7.72                  | 7.60                  | 7.52                  |
| ALKALINITY     | 18.00 mg/l           | 18.00 mg/l            | 20.00 mg/l            | 24.00 mg/l            |
| COPPER VALUES  | 0.07 mg/l            | 0.08 mg/l             | 0.13 mg/l             | 0.17 mg/l             |



## TEST SUMMARY

- The pH-value of water rises continuously upto a storage time of 12 hours. After 12 hours, the pH-value sinks slightly. With this test, we can scientifically prove that copper increases the pH levels in water, thereby making the water alkaline.
- The test observations also prove, that the copper content absorbed remains well within the permissible limit of 2.0 mg/l as per WHO guidelines, even after 36 hours. This shows that even after a long storage period, drinking water from our bottles is completely safe.

## TEST 3

### ANTI-BACTERIAL PROPERTIES OF COPPER BOTTLES

The test has been conducted using contaminated water with water-borne bacteria infused in the water.  
The test has been conducted for a period of 6 hours.

| TEST CONDUCTED    | INITIAL VALUES  | DURATION:<br>6 HOURS |
|-------------------|-----------------|----------------------|
| COLIFORM BACTERIA | 46 UNITS/ 100ML | NOT DETECTED         |
| E. COLI BACTERIA  | 10 UNITS/ 100ML | NOT DETECTED         |



## TEST SUMMARY

- Within a period of 6 hours, even harmful bacteria like E.coli was not detectable in the stored water.
- This test helps us prove that Forrest & Love water bottles act anti-bacterial & can kill water borne-bacteria within hours.

## FURTHER NOTES

Tests 1 & 2 prove that Forrest & Love copper bottles increase the alkalinity & pH-value of water. The tests also prove that the copper content in water that has even been stored in the copper bottles for 24 hours is far below the threshold value according to the WHO guidelines.

Test 3 shows that the water stored in Forrest & Love copper bottles kills bacteria in general, even harmful bacteria like E. coli. A recently published study by NIH (National Institute of Health, Maryland, USA) also proves that Covid- 19 viruses on a copper surface die within 4 hours.

The results & conclusions from the above studies have been taken from the scientific tests conducted by independent laboratories. The findings could be subject to changes or errors under varied circumstances.