

# **Decontamination of Water with Mercury Through Mango Seed**

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## **Abstract**

In the next article, we will ascertain to test if mercury can be absorbed from water through mango, more precisely a mango seed, in the same way some proteins do, like the albumin that transports metals through the body. It's known that the mango seed its composed of 6.39% raw protein being the most relevant factors: globulins 40.16%, insoluble proteins 23.84%, glutenins 15.81%, albumins 12.11% and prolamins 8.08%. The mango seed passes through a dehydration process then once it's completely dehydrated its grind until it's in millimetric powder, a screening its made till it reaches 150 microns. Once the water is decontaminated it will pass through some test to determine their viability, we will analyze the results and draw conclusions in base of them. The mercury in the water its a problem with a raising concern in our communities, since its frequency is incrementing in lakes and oceans as time passes. The seafood we ingest have mercury in their organisms and these causes respiratory, renal and cardiovascular problems, among others. Hence lies the importance of our investigation to decontaminating water.

## **Key words**

mango, seed, mercury, decontamination, water

## **Biografías:**

**Andrea Teniente Torres :** Andrea is nineteen years old. Born in Monterrey, México. She graduated from high school in May 2019 from Prepa Tec Eugenio Garza Lagüera in the multicultural program, in high school she was member of the Social Action Committee, member of FIRST ROBOTICS team (Voltec) in her school, member of committee the Free Enterprise Leadership Challenge: FELC and also participated in state and national entrepreneurial contests and

bootcamps with a project using biomarkers. She is currently a first semester medical student at the University of Monterrey (UDEM).

**Fernanda López Lozano** Fernanda is seventeen years old. She was born in Guadalajara Jalisco, Zapopan on November 28th 2001. She is a first semester med student in the University of Monterrey (UDEM). Additionally, she used to study in the Colegio Antonio Repiso in Ciudad Victoria, Tamaulipas; in which she graduated with the third place

**Kassandra Sarahí Baca Sánchez** : Kasandra Sarahí is a first semester student of medicine at the University of Monterrey (UDEM). Currently, she is a participant in the Talento de Barrio social project (TDB) where she plays the role of math teacher in third grade of high school and theater and dance for the three grades of study.

**Martha Angélica Solís Martínez** : Martha Angélica is eighteen years old. Born in Monterrey, Mexico on November 3rd 2000. She is currently studying the first semester of medicine in the Universidad de Monterrey. She graduated of Prepa UDEM in June 2019 with a Career-related Programme Certificate of the International Baccalaureate

**Ana Cristina Montiel Lara** : Ana Cristina is nineteen years old. Born in San Luis Potosí, San Luis Potosí on May, 12th 2000. Is a first semester student at the Universidad de Monterrey. She used to study at Prepa Tec in San Luis Potosí.

**Gabriela Anahí González Tamez** : Gabriela Anahí is eighteen years old. Born in Monterrey, México. She graduated High School in May 2019 in Prepa Udem where she completed successfully the IB program. She is a first semester medical student at The University of Monterrey (UDEM)

**Jonathan Eduardo Gaytan Cavazos** Jonathan Eduardo is eighteen years old. he was born in Querétaro, Querétaro on June 18th 2001. He is actually a first semester student in the University of Monterrey (UDEM). Additionally, he studied in Prepa UDEM before that, in which he graduated last semester.