

Qualitative and quantitative analysis of soft drinks and other pro-biotic drinks

Prof.Mrs.M.V.Ghamande¹, AmeyaTambe², PrathmeshVipra³,

Ashish Kortikar⁴, Rajvardhan Patil⁵

Vishwakarma Institute of Technology, SPPU, Pune.

ABSTRACT

In recent years, Soft drinks brands were put into various questions regarding their purity. News flashed that they contain harmful pesticides, which arouse many interest in knowing its contents because I have been drinking for so long and was always astonished by the tasty drink. I want now to confirm that whether the charge imposes on these brands are true or false. And if it is true then is there anything else which would be same refreshing yet non-lethal.

Probiotics are live bacteria and yeasts that are good for your health, especially your digestive system. We usually think of these as germs that cause diseases. But your body is full of bacteria, both good and bad. Probiotics are often called "good" or "helpful" bacteria because they help keep your gut healthy.

Another fact which inspired me to do that I am in touch with qualitative analysis whose knowledge with other factors helped me to do so.

Keywords: Astonished, Non-Lethal. Probiotics, Qualitative Analysis.

I INTRODUCTION

The era of cold drinks began in 1952 but the indenisation of industry marked its beginning with launching of limca and gold spot by parley group of companies. Since, the beginning of cold drinks was highly profitable and luring, many multinational companies launched their brands in India like Pepsi and Coke.

Nowadays, it is observed in general that majority of people viewed sprite, Miranda, and Limca to give feeling of lightness, while Pepsi and Thumbs Up to activate pulse and brain

II THEORY

Cold drinks of different brands are composed of alcohol, carbohydrates, carbon dioxide, phosphate ions etc. These soft drinks give feeling of warmth, lightness and have a tangy taste which is liked by everyone. Carbon dioxide is responsible for the formation of froth on shaking the bottle. The carbon dioxide gas is dissolved in water to form carbonic acid which is also responsible for the tangy taste. Carbohydrates are the naturally

occurring organic compounds and are major source of energy to our body. General formula of carbohydrates is $CX(H_2O)_Y$. On the basis of their molecule size carbohydrates are classified as:- Monosaccharide, Disaccharides and Polysaccharides. Glucose is a monosaccharide with formula $C_6H_{12}O_6$. It occurs in Free State in the ripen grapes in bones and also in many sweet fruits. It is also present in human blood to the extent of about 0.1%. Sucrose is one of the most useful disaccharides in our daily life. It is widely distributed in nature in juices, seeds and also in flowers of many plants. The main source of sucrose is sugar cane juice which contain 15-20 % sucrose and sugar beet which has about 10-17 % sucrose. The molecular formula of sucrose is $C_{12}H_{22}O_{11}$. It is produced by a mixture of glucose and free dose. It is non-reducing in nature whereas glucose is reducing. Cold drinks are a bit acidic in nature and their acidity can be measured by finding their pH value. The pH values also depend upon the acidic contents such as citric acid and phosphoric acid.

III CONCLUSION

Disadvantages of Cold Drinks

1. Soft drinks are little more harmful than sugar solution. As they contain sugar in large amount which cause "diabetes".
2. Soft drinks can cause weight gain as they interfere with the body's natural ability to suppress hunger feeling.
3. Soft drinks have ability to dissolve the calcium so they are also harmful for our bones. Soft drinks contain "phosphoric acid" which has a pH of 2.8. So they can dissolve a nail in about 4 days.
4. For transportation of soft drinks syrup the commercial truck must use the hazardous matter place cards reserved for highly consive material.
5. Soft drinks have also ability to remove blood so they are very harmful to our body.

Advantages of Cold drinks:

Cold drinks can be used as toilet cleaners. They can remove rust spots from chrome car humpers. They clean corrosion from car battery terminals. Soft drinks are used as an excellent 'detergent' to remove grease from clothes. They can loose rusted bolt.

Advantages of Pro-biotic Drinks:

Anything if consumed in excess will be harmful to our body. We cannot completely rely on probiotics but in comparison with soft drinks, probiotics are better.

Probiotics helps to grow our immune system stronger and does not affect our body with any other sort of changes like obesity.

So after doing many experiments and finding out the results I can surely say that probiotics are better than soft drinks and are also good refreshments.

Acknowledgement: We are very thankful to our Honourable Director Sir, Prof.(Dr) R.M.Jalnekar Sir for introducing the concept of course project in the syllabus, Our thanks are also to Head of the DESH ,Pro.(Dr) C.M.Mahajan sir and our guide Mrs.M.V.Ghamande for continuous support.

REFERENCE

<https://en.wikipedia.org>

<https://www.sciencedirect.com>

<https://www.slideshare.net.com>