



3RD FACULTY LECTURE

TITLE: IS WATER WATER?

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INTRODUCTION

- ❖ Water is a liquid without colour, smell, or taste that falls as rains, is in lakes, rivers, and seas, and is used for **DRINKING**, washing etc (New 8th Edition, Oxford Advanced Learner's Dictionary, page 1678)
- ❖ Aduku *et al* (2017) advised “Drink a lot of water (not soft drink) at each meal to aid digestion and to flush out waste from the body”. Our body composed of 65 % water and needs water for muscles tone and volume





INTRODUCTION CONTD.

❖ Please, drink quality water !!!





INTRODUCTION CONTD.

❖ According to NAFDAC, Nigeria has recorded significant growth of packaged water production (NAFDAC, 2012)





WHAT ARE THE REQUIREMENTS FOR WATER ?

- ❖ Absence of chemical contaminants (Lead, Cyanide, Mercury, Arsenic, Cadmium etc.) to avoid organ diseases.
- ❖ Absence of microorganism (*Escherichia coli*, *Pseudomonas aeruginosa*) etc to avoid water borne infection such as cholera, typhoid fever etc.



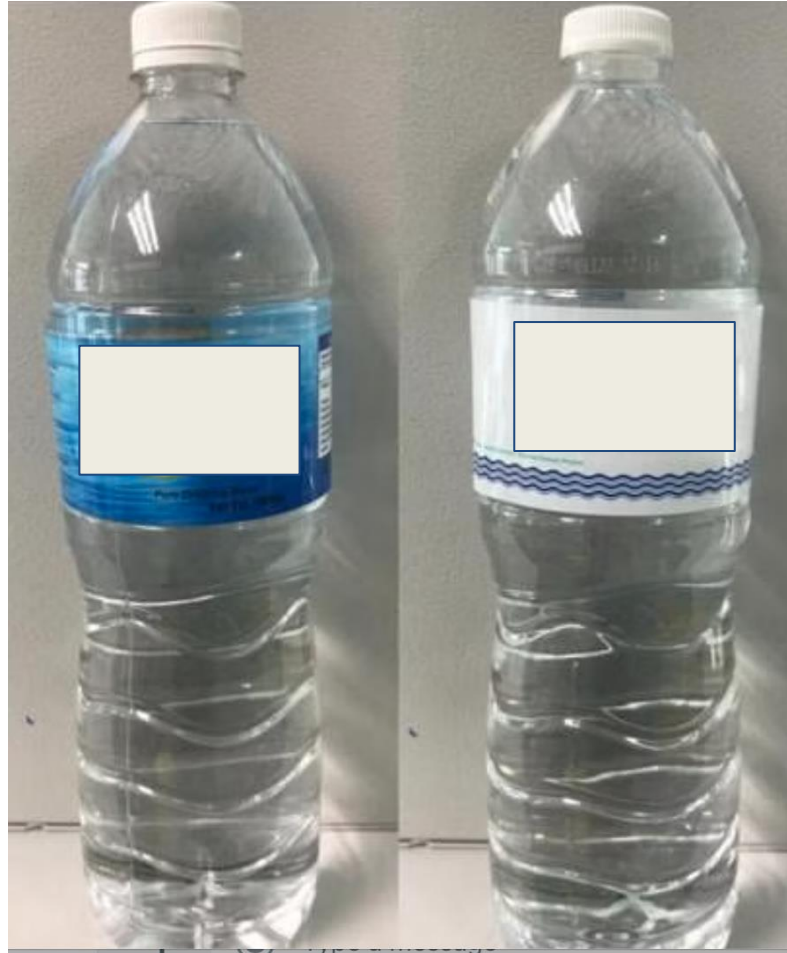


WHAT ARE THE REQUIREMENTS FOR WATER ?

PHYSICO – CHEMICALS ANALYSIS

S/No	Parameters	Analytical Results Raw	Permitted level [NIS]
1	Colour	0	3
2	Turbidity{N.T.U}	0	5
4.	Declared Content, Cl	75	-
5	Net Content, Cl	78	-
7.	pH	7.3	6.5 – 8.5

IS WATER WATER ?





IS WATER WATER ?

- ❖ Some portable packaged water do not conform with the regulatory standards (Gana *et al.*, 2021)
- ❖ Some can be bitter (Number 5 vs 18; 2 king 2 vs 18- 21)
- ❖ Some contains particles.





SOURCES OF CONTAMINATION

- ❖ Poor handling of packaging materials (Printed Nylon)





SOURCES OF CONTAMINATION

❖ Dirty micro filters





SOURCES OF CONTAMINATION

- ❖ Tying treated water pipe with nylon



SOURCES OF CONTAMINATION

- ❖ Unhygienic handling of finished goods inside store



SOURCES OF CONTAMINATION

❖ Vehicle for distribution of products



SOURCES OF CONTAMINATION

❖ Dumping of leftover food inside factory waste basket.





RECOMMENDATIONS

- ❖ Be your own quality control officer (pH meter).
- ❖ Know the quality of the water/ packed water you are drinking etc.
- ❖ Obey storage conditions as a consumers.
- ❖ Compliance to regulatory agency standard (NAFDAC and SON) such as proper dressing and functional quality control method, etc.



RECOMMENDATIONS CONTD.



Conclusion

Stay SAFE, DRINK QUALITY WATER





References

- Oxford Advanced Learner's Dictionary. New 8th Edition, page 1678.
- National Agency for Food and Drug Administration and Control (NAFDAC). Recertification of water producers in Nigeria (2012)
- 2 king 2 vs 19 – 21. Holy bible New King James Version.
- IPAN Workshop Manual (2012). 15th Mandatory Training on Environment, laboratory and Standards.
- Aduku A.O., Booth S.A., Bolorunduro P.I. (2017). Food is Medicine. 2nd edition. ISBN NO: 978-194-178-2



THANK YOU FOR LISTENING

