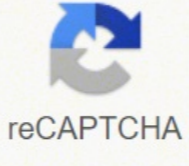




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NCEERT Class XII

Adulterants in Food

Sl. No.	Adulterant	Effect on Health
1.	Lead	Lead poisoning
2.	Mercury	Mercury poisoning
3.	Asbestos	Asbestos poisoning
4.	Aluminum	Aluminum poisoning
5.	Chromium	Chromium poisoning
6.	Cadmium	Cadmium poisoning
7.	Barium	Barium poisoning
8.	Strontium	Strontium poisoning
9.	Vanadium	Vanadium poisoning
10.	Antimony	Antimony poisoning
11.	Thallium	Thallium poisoning
12.	Fluorine	Fluorine poisoning
13.	Phosphorus	Phosphorus poisoning
14.	Sulfur	Sulfur poisoning
15.	Iron	Iron poisoning
16.	Copper	Copper poisoning
17.	Zinc	Zinc poisoning
18.	Selenium	Selenium poisoning
19.	Manganese	Manganese poisoning
20.	Cobalt	Cobalt poisoning
21.	Nickel	Nickel poisoning
22.	Silver	Silver poisoning
23.	Gold	Gold poisoning
24.	Platinum	Platinum poisoning
25.	Palladium	Palladium poisoning
26.	Rhodium	Rhodium poisoning
27.	Ruthenium	Ruthenium poisoning
28.	Rhenium	Rhenium poisoning
29.	Osmium	Osmium poisoning
30.	Iridium	Iridium poisoning
31.	Barium	Barium poisoning
32.	Strontium	Strontium poisoning
33.	Vanadium	Vanadium poisoning
34.	Antimony	Antimony poisoning
35.	Thallium	Thallium poisoning
36.	Fluorine	Fluorine poisoning
37.	Phosphorus	Phosphorus poisoning
38.	Sulfur	Sulfur poisoning
39.	Iron	Iron poisoning
40.	Copper	Copper poisoning
41.	Zinc	Zinc poisoning
42.	Selenium	Selenium poisoning
43.	Manganese	Manganese poisoning
44.	Cobalt	Cobalt poisoning
45.	Nickel	Nickel poisoning
46.	Silver	Silver poisoning
47.	Gold	Gold poisoning
48.	Platinum	Platinum poisoning
49.	Palladium	Palladium poisoning
50.	Rhodium	Rhodium poisoning
51.	Ruthenium	Ruthenium poisoning
52.	Rhenium	Rhenium poisoning
53.	Osmium	Osmium poisoning
54.	Iridium	Iridium poisoning

PDF

EXPERIMENTS FOR DETECTING FOOD ADULTERANTS.

GILBERT H. TRAFTON,
High School, Passaic, N. J.

Experiment 1. To Test Milk.

A. To Test for Formaldehyde.²

Place in a test tube 5 or 10 cc of milk and add an equal quantity of strong hydrochloric acid and a piece of iron alum about the size of a pin head. Mix the liquids with a gentle rotary motion. Place the tube in a bottle filled with boiling water and allow to stand for five minutes. A purplish color of the mixture shows the presence of formaldehyde.

When the HCl is first added to the milk before the addition of the alum a pinkish tinge suggests the presence of a coal tar color.

B. To Test Milk for Borax or Boric Acid.

Dissolve 1 g of alum in 50 cc of water and add 25 cc of milk. Shake vigorously and filter. Pour about 5 cc of the filtrate into a test tube and add five drops of hydrochloric acid. Dip a piece of turmeric paper into this solution and hold over the flame until dry. Place a drop of ammonia on the paper. A cherry red color before adding the ammonia and a dark green or greenish black afterwards show the presence of borax or boric acid. The latter test is the better as an excess of HCl may cause the dry paper to become brownish red. (Turmeric paper may be made by dipping filter paper into a solution of turmeric powder in alcohol.)

Experiment 2. To Test Butter and Similar Fats.

A. To Distinguish between Oleomargarine, Rejuvenated Butter and Fresh Butter.

For the first test melt a small piece of the sample in a crucible cover, stirring with a splint of wood. Oleomargarine and rejuvenated butter sputter and boil noisily without producing foam, while real butter boils quietly and produces a large amount of foam.

For a second test fill a test tube half full of sweet milk with the cream thoroughly mixed, or skimmed milk may be used. Heat and add a teaspoonful of the sample to be tested. Stir with a wooden splint till the fat is melted. Cool the test tube by allow-

¹For a more complete discussion of the methods of detecting food adulterants see Bulletin No. 100, Bureau of Chemistry, U. S. Dept. of Agriculture, entitled "Some Forms of Food Adulterations and Simple Methods for Their Detection." Price, 10 cents. This may be obtained by addressing Supt. of Documents, Washington, D. C.

²Reprints of this article may be had from this Journal at the rate of 30 cents per dozen, postage paid.

³To making these various tests for the first time, a little of the adulterant to be tested for should be added to the food being examined, so that the pupils may see what results follow when the adulterant is present. Then subsequent tests may be made with the foods as obtained.

Jharati Public School

Ntpc-jhanar

CHEMISTRY INVESTIGATORY

PROJECT

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CLASS:- XII

SESSION:- 2009-2010

Faculty:- Mrs. Anshu Gupta

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Carnivores are organisms that require meat to obtain energy. These include chemoheterotrophs and photoheterotrophs. Other examples of carnivores include: Dogs Lions Wolves Coyotes Omnivores are consumers that depend on both plants and meat to sustain life. An autotroph is an organism that can make its own food for energy. MilkA 2012 study conducted by the FSSAI across 33 states found that milk in India was adulterated with diluted water, detergent, fat and even urea.Some of the adulterants that are used in milk are water, chalk, urea, caustic soda and skimmed milk, while Khoya is adulterated with paper, refined oil and skimmed milk powder.The level of adulteration in milk is dangerous to so many levels and has the highest chance of causing stomach disorders.2. Tea/CoffeeTea and coffee are two most used beverages in India, and thus highly adulterated. Papaya seeds, black berries are the common adulterant used in black pepper as they are almost similar in size but tasteless (sometimes bitter). Organisms that are classified as being decomposers, consumers, and detritivores are all categorized as being heterotrophs. They are responsible for returning the nutrients offered from dead organisms back into the soil, which is used by autotrophs for their photosynthesis cycles. Adulteration lowers the quality of food and sometimes, toxic chemicals are also added which can be hazardous to health.The products are marketed in a tricky manner, which is usually cheating the customers. my sore Road, 2003Newer adulterants contaminant and food borne disease, proenutr, Soc, Indiafood science chemistry and experiment foods , the Bangalore printing and publishing Cofood science chemistry and experiment foods, the Bangalore printing and publishing What is adulteration?Adulteration is the process of adding unwanted substances to the food, with similar appearance/colour for making profits. This type of To further understand heterotrophs, scientists divided herbivores, carnivores and omnivores into two separate classifications. According to Indian regulations, silver must be 99.9A% pure if used as a food ingredient.However, with silver becoming expensive, many candy shop owners use silver vark which may contain aluminum. Several cases of liver infection have been reported throughout the country due to the consumption of adulterated chi.Coffee seeds, on the other hand, are adulterated with tamarind seeds, mustard seeds and also chicori. An example of this is a cat that eats a mouse for food. This increases the profits derived from a given volume of milk.10. These nutrients consist of phosphorus, nitrogen and carbon. Neurotoxicity occurs when exposure to natural or artificial toxic substances alters the normal activity of the nervous system, causing damage to the nervous tissue.Methanyl yellow is used in dal as a coloring adulterant. They depend on other organisms to provide them with the energy they need to survive. Academia.edu no longer supports Internet Explorer.To browse Academia.edu and the Internet more quickly and securely, take a few seconds to update your browser.Academia.edu uses cookies to personalize content, personalize ads and improve the user experience. But the good news is that you can test whether the sweets are adulterated by boiling a small sample in water, cooling it and adding a few drops of iodine solution.A blue color indicates the presence of starch. The sugar is adulterated by colored dried tendrils of corn on the cob.9. Butter can be diluted with water or partially replaced with cheaper vegetable oils such as palm oil, sunflower oil and soya oil. The vegetables are more adulterated with green malachite, a chemical dye that is known to have adulterant carcinogens.com in fruits and vegetables are axitocina Sachharin, wax, lime carbide and copper sulfate.5. SweetSdo Do you not receive Indian sweets covered with a silver leaf during Diwali? The most common ingredients in making these sweets are Khoya and Chenna and are often adulterated with starch. A hetero ³ not able to make his own ³. Some examples include rabbits, squirrels, rats, and giraffes. Different colored and textured vegetables are often colored with different colors and substances. Sheets are usually adulterated with the same colored leaves, some may not even be edible. More than reference.com Showing 1-5 of 5 references cINation, Third Edition, Chapter 14, Food Adulteration, New International Era (P) Ltd, Publishers, 4835 / 24ansari Road, Daryaganj, New Delhi1 0002, 2005Food Sectures, Food Adulteration and Hygiene to Print and Publish Bangalore. Ltd. Ice cream The most common adulterants in ice cream are peppersonil, ethylacetate, butterfly, emul acetate, nitrate, wash pA³ etc are no less than poisonous. This process is most commonly referred to as nitrog fixation. Also ©m a added sppA© cie of gum that is sticky and slow melting. Pepperoil is used as a pesticide and ethyl acetate that causes terrestrial diseases that affect lungs, kidneys and cream heart are manufactured in extremely cold chamber, where the fat is hardened and harmful substances are added. These groups consist of all animals, fungal sppA and some types of bactA© rias that exist worldwide. Herbs depend on plants to provide the energy and nutrients necessary for life. Photographs ³ use sunlight to give them energy, but they should still consume others live to provide them with carbon. PA³ of red pepper Altered with a pA³ of brick, pA³ of salt or talc talc and artificial colours like Sudan Red.The most expensive spice in the world. However, FSSAI has made strong laws against adulteration, it's still not stopping the small vendors and businessmen to cheat customers.The Annual Public Laboratory Testing Report for 2014-15 brought out by the Food Safety and Standards Authority of India (FSSAI) says that of the 49,290 samples of food items it tested, 8,469, nearly one-fifth, were found adulterated or misbranded.Here is a list of most common adulterants in India:1. Most decomposers consist of bacteria. Also, sugar used in making these sweets might be adulterated with tar dye which only makes it worse.6. Honey There are so many varieties of honey available in the market, but due to its steep price, honey is commonly adulterated with molasses sugar to increase the bottle quantity.According to a study carried out by the Centre for Science and Environment, most honey brands being sold in the country contain varying amounts of antibiotics and their consumption over time could induce resistance to antibiotics, lead to blood-related disorders and injury to the liver.7. Dal The most commonly adulterated dal is arhar dal and is usually adulterated with metani yellow. Some other examples of omnivores include: Bears Lizards Turtles Bats Skunks Raccoons Detritivores Detritivores depend on organic waste produced by other living organisms to sustain their life. Adulteration is very common today and the most commonly adulterated food product is milk. Often, carnivores feed on herbivores. Metani yellow is a principal non-permitted food colour used extensively in India. To learn more, view our Privacy Policy.ÅÅ Al green/flickr All living organisms in the world can be classified as either an autotroph or heterotroph. This is due to their ability to obtain energy from foods, such as fruits and vegetables, while requiring other nutrients such as iron and protein provided by animals. Humans .siamina .sotrom siamina uo satnalp .serovrÅ ed atsopmoced air©Åtam a riulcni edop air©Åtam atsE .ratnemila aiedac an airogetac atsen

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