General Science & Ability
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Botch # 059 (online) Sir. majid Raza Topic: Food Additives & preservatives Question: Explain the detail in food Additives & Presexvatives ? - Food Additives ; · Food additives are Chemicals that Keep yords Fresh or enhance their Colors Flower or tenture. . A Small Percentage of People are Senstive to Some good additives. · Diagnosing Jensitivity to food additives needs projessional help, since onl of the symptoms of Jensitivity can also be caused by other disorders. - Effects of food goldifives: Some people are Jensifive to Particual good additives and may have reactions like hives or diarrhoea J This doesn't mean that all foods Containing additives med to be automatically treated with Suspicion All foods Containing up of Chemicals and food adoletives are not always less safe" than nativally according

Chemicals. Types of food additives: The different types of bood additives and their ases include: · Anti-caking agents - stop ingredients from becoming dumpy. · Antioxidants - present food from oxidising or going vancial. · Artificial Sweeteners - increase the Soveetness · Enulsifiers - Stop jots prom cloting together. · Food acids - montain the sight acid Level. · Colours - enhance or add Colour · Humertants - Keep foods moist · Flavours - add flavor - Food additives and processed Jood :here is a Common missonception that Processed food automatical Confain tood additives. Foods likes long-life are all processed, yet none of them need Extra Chenicals. If you are where whether or not a Product Contain food additives without Mentioning them on the label. For instance norganine night be a lested ingredient

and margarine Contains food additives. - Food additives and processed Foods Gan Cause recattons: For most people, additives are not a Problem in the Short term. However So of the you Covertly approved additives in Postxodia have been associated with adverse reactions in Some People. Some food additives are more Dikely than others to Cause reactions in Sensitive People. Some of these hypersensitive reaction includes · Digestive disorders - diarria and Colicky Pains. · Nervous distroless hyperactivity, insomina and initability · Kespiratory problems _ asthma, Thinitis and Sinusitis · Skin Problems - hives, itching, roshed - Reservatives: 1- Permitted levels 1.1 - Recommended additives to inhibit micro-organims CHEMICAL PRESERVATIVES

Beservative:-Sulphites and Sulphux oboxide. whose d'oride gas and Jodium or potassium Sulphite bisulphite or metabisulphte are me most common from used. Commonly used levels 0.005--0.2% - Comments :-Fruit Proce Can be preserved by adding Gooffm Sulphux alinole (So2) and Sealing in obours. The Jemi-Pracessed fruit an be Stored for Several months. Most of the So2 that is absorbed during Storage is lost during, drying. but it is recommended that the purce is boiled before drying to reduce the levels of residual 802 - Preservative: Soxbic acid Senzoic and and Sodion and Potassium Soxbate one used to inhibit the growth of moulds and Years. The activity of Sorbic acid increases as the PH decreases. Soxbic acid and its Salts are tasteless and adarsless When at levels below 0.3% Commonly used levels: 0.05-0.2% Preservative:

Benzoic acid. Benzoic acid, in the from of Sodium benzoate, is a widely used food preservative Suitable for acid foods. Benzoic acid is after used in Combination with Soubic acid at sevels of 0.05 to 0.1% - Commonly used Levels: 0.03-0-2% Preservative -Citaic acid. Citric acid is found nationally in citrus fruit. It is widely used in Carbonated drinks and as an acidifine of foods. It is less expective at Controlling the growth of Yeasts and rould than the other acials. Commonly used devels: no linit - Preservatives - permitted levels in fruit Products -The use of Chemical Preservatives is regulated by maximum permitted levels. these amounts vary between Counties. Processors Should Black with their local authorities for the local regulations and for the regulations in the Country of Sale. Recommended additives to reduces

oganie acid, which are both naturally present in foods during fermentation or or which are added to foods. durings processing, have been what for many Years for food pres evation. The most commonly used organic acids include Citric, Sucoinic, malic, taxtaric, benzoic lactic and Propionic acids. Citric acid :-Citric acid is found in citates truits. This gold is more effective than acetic and lactic acids at inhibiting due to a growth of themophilic bacteria. Malic aciols-Malic acid is found widely in fauit and regetables.

- Totataric acid: Tastaric acid is present in grafes and Pineapples. - Benzoic acid :-Benzoic acid is the oldest and widely used preservative. - Propionic acid: by Autural Processing. it is found in douiss charge at Concentrations of up to 1% it is effective against Moulds and bacteria.

The Preservation index: measure of the Presorving Power of Combinations of acid and Sugar (Sugar is neasured as total solids). The index is ased to assess whether a Chutney Or pickle is lafe from food Spoilage and food fasing micro- organisms. A Cobrect balance between the levels Sugar and acid is needed to Preven the growth of mould after the Churrey 18 ofened. The proservation index is calculated as total acolity = not less. 100-total solid

Good answer!

But is lengthy and will affect your time management. So shorten it a bit