

Edition: 4

Volume: 3

Month: April

Year: 2016

Tech Talk

Monthly Newsletter by Spectro Group

Director's Desk

We take this opportunity to thank you each one of you for making our Newsletter a success. We are pleased to share with you the new edition of our monthly Newsletter "Tech-Talk" which is designed to be an elemental source for leading information related to developing technologies, ingenious techniques and innovative approaches. This newsletter is contemplated to underline electrifying forthcoming activities and resources of our organization.



Kuldeep Dhingra
Managing Director



Sushant Gupta
Executive Director

In this Issue

- Editorial
- Brief About Spectro
- **News:** Is Your Child a Victim of Food Allergy?
- **Article:** Fruits artificially ripened with calcium carbide eat or delete
- Spectro Group of Companies

We invite you to a new paradigm created by Spectro to examine the resources on our website which includes our amplifying services using science to harness cutting-edge technology and experience the Spectro difference.

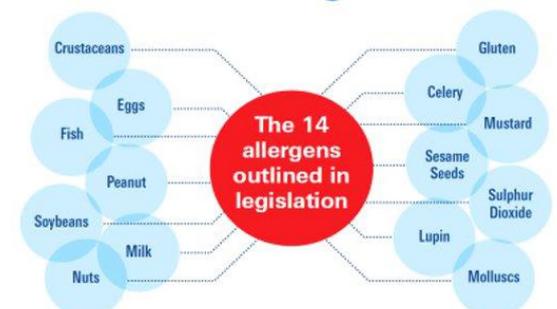
Brief about Spectro

Spectro commenced to serve in the year 1995 and during the span of 20 years, Spectro Group of companies has created a globally recognized position in the field of Testing, Calibration, Auditing, Certification, Training, Inspection, R&D, Special Purpose Equipment Designing & Manufacturing and various other activities. Steadily building a reputation for reliability and fast turnaround, the organization grew rapidly and today we feel proud to have our presence all over the country.

Is Your Child a Victim of Food Allergy?

Does your child encounter frequent episodes of diarrhoea, vomiting, stomach ache, rashes, runny nose, itchy eyes, swelling in mouth areas, and shortness of breath? If yes, your child could be a victim of food allergy. Food allergy is an abnormal immune response towards a particular food item as if it's a foreign object and develops reactions toward it. Learning about this condition and its symptoms will help you work with your child on a long-term solution

Be Food Allergen Aware



Food allergies must not be confused with food intolerance. A food allergy triggers an immune-system response; food intolerance does not. Intolerance is the consequence of an enzyme deficiency in an individual.

An allergic reaction to a food item could be severe or even life-threatening; food-intolerance symptoms are generally rarely life threatening but could lead to severe digestive problems such as diarrhoea, malabsorption, colon cancer, or malnutrition.



Symptoms and Diagnosis

If the child develops symptoms after consumption of a particular food, then the child could be allergic to that food. The child could be allergic to the food additives as well, so one must watch whether the child develops any symptom after consumption of packet food only. Development and severity of allergy symptoms also depends on the amount of the food ingested.

Symptoms include vomiting and/or stomach cramps, hives, shortness of breath, dizziness, wheezing, repetitive cough, shock or circulatory collapse, trouble swallowing, swelling of the tongue, weak pulse, and pale or blue colouring of skin. Food allergy reactions can vary from person to person. Some can be very mild and only involve one part of the body, like hives on the skin. Others can be more severe and involve more than one part of the body. Reactions can happen within a few minutes or up to a few hours after contact with the food.

If you suspect that your child might have a food allergy, contact your doctor. To diagnose an allergy, the doctor will enquire about: your child's symptoms, how often the reaction happens, the time it takes between eating a particular food and the start of the first symptoms, and whether any family members have allergies or conditions like eczema and asthma.

The doctor will look for any other conditions that could cause the symptoms. For example, if your child seems to have diarrhea after drinking milk, the doctor may check to see if lactose intolerance could be the cause rather than a food allergy.



Dealing with Food Allergy

Medical treatment: Steroids and antihistamines are the first line of treatment given by doctors if the symptoms are severe. However, remember that no medication can cure food allergies, so treatment usually means avoiding the allergen and all the foods that contain it.

Elimination diet: Elimination diet involves removal of the specific foods or ingredients from the diet which could be producing allergy symptoms. This could also be planned at the time of starting the weaning process. Common allergy-causing foods include milk, eggs, nuts, wheat, and soy.

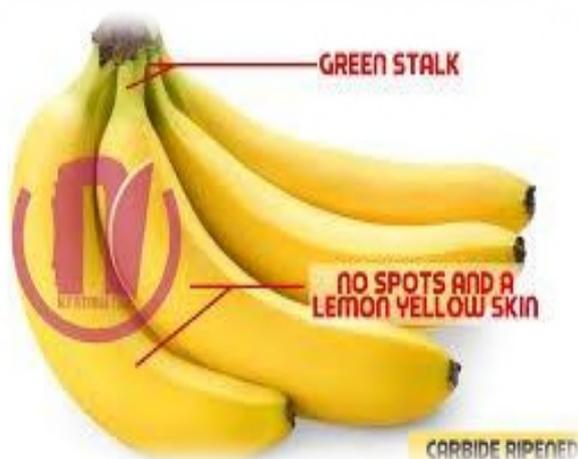
References:

Medical News Today

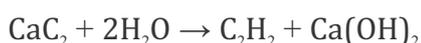
Consumer Voice

Medscape

Fruits and vegetables are playing a vital role in our lifestyle and impart lots of nutrients like vitamins, minerals, dietary fibers, phenols, carotenoids and flavonoids etc. Now a day's consumers are demanding for fresh fruits and vegetables but no one can ensure us whether the food which we are eating is safe or not. Fruit wholesalers are using different types of chemicals Calcium carbide (CaC₂) is a very harmful and strong chemical agent used for quick ripening of fruits and on consumption it causes several health hazards to human health. Industrially calcium carbide is produced in an electric arc furnace from the mixture of lime and coke at high temperature.



It is also known as masala, with carcinogenic properties and contains residues of arsenic and lead. On consumption of fruits treated with carbide causes cancer, skin irritation, diarrhea, liver disorders, gastrointestinal disorders, mouth ulcers, nausea, vomiting, cardiac disorders, central nervous system depression, kidney disorders and much more. When it reacts with moisture it produces acetylene gas which fastens the ripening process.



Fruits ripened with carbide are attractive as well as uniform in colour, soft overly but inside raw and inferior in taste and flavor having short life span. Calcium carbide is now banned in many countries because of its hazardous effects and carcinogenic properties. Govt. of India has banned this strong reactive chemical under PFA rules, 1955. Moreover, FSSAI permits only ethylene gas for artificial ripening of fruits.

Precautions while consuming fruits

- Thorough washing of fruits under running water for 2-3 minutes.
- If possible peels off the fruits like apple, mango and cut the fruits into pieces while consumption.
- If you have space then starts your own kitchen garden.



AAS is an instrument used for the quantitative identification of arsenic and lead using the absorption of optical radiation by free atoms in the gaseous state.

Spectro Analytical Lab posses AAS to carry out testing of arsenic and lead residues in fresh horticultural commodities and it also provides all facilities.

Spectro Group of Companies



Spectro Lab Equipments (P) Ltd. is prompted by a team of committed professionals who have years of experience and have not lost any opportunity to prove their ingeniousness. SLE is one of the prominent manufacturers of Environmental and Coal Laboratory Equipments and also deals with their sale and service setups. It also provides support in the field of Testing equipments and instruments

Major Activities

Testing Calibration Training Inspection R&D Automation Reverse Engineering

- ⇒ Metals & Alloys
- ⇒ Non Destructive Testing
- ⇒ Rubber & Polymers
- ⇒ Food and Agro Products
- ⇒ Coal, Solid Fuels & Petroleum
- ⇒ Electrical & Electronics
- ⇒ Pharmaceuticals & Drugs
- ⇒ Building Materials
- ⇒ Minerals & Chemicals
- ⇒ Leather & Textiles
- ⇒ Water & Environment
- ⇒ Paper & Packaging Materials
- ⇒ Hazardous Substances
- ⇒ Clean Room Validation

Our Joint Venture Labs

Project Sites

Spectro Testing & Research Center Pvt. Ltd. (Jaipur)

Chennai (Tamil Nadu)

Spectro Research Lab Ventures (P) Ltd. (Kanpur)

Roorkee (Uttarakhand)

Spectro Testing (P) Ltd. (Jammu)

Durgapur (West Bengal)

Spectro SSA Labs (P) Ltd. (Mumbai)

Jaisalmer (Rajasthan)

Spectro Global Lab Pvt. Ltd. (Bhubaneswar)

Patna (Bihar)

Spectro Shyam Labs (P) Ltd. (Kolkata)

Ranchi (Jharkhand)



We will be pleased to receive your valuable queries, feedback and suggestions on our email ID: newsletter@spectrogroup.com

Girija

Editor

CIN : U74220DL1998PL C092698

Central Lab & Head Office

E-41 Okhla Industrial Area
Phase-II
New Delhi-110020
Ph:- 91 11 40522000, 41611000
E-mail: care@spectro.in
URL:- www.spectrogroup.com
www.spectro.in

Main Laboratory

S-1 GNEPIP, Surajpur Industrial Area
Kasna, Greater Noida, Phase-V
Gautam Budha Nagar (U.P.)
Pin Code: 201308
Ph:- 0120-2341251/52
E-mail:- care@spectrogroup.com
URL:- www.spectrogroup.com