



# SAMSKRUTI COLLEGE OF PHARMACY

(Sponsored by St. VINCENT EDUCATIONAL SOCIETY)

Regd. No. 5782/2000

(Approved by AICTE, PCI, New Delhi and Affiliated to JNTU, Hyderabad)



Kondapur Village, Ghatkesar Mandal, Medchal District (Old R.R. Dist)-501 301.

Cell : 9701368996,

The institution has a vision to build an innovation ecosystem that fosters research culture and nurtures the results of research to be transformed into high impact publications, viable products, patents and startups with the motivation of management and pharmaceutical industries in the form of funds that contribute research activity. The institution has research driven attitude that exemplifies the pharma nation conducted in lieu with the expertise faculty members in well-established Research and Development Cell headed by Principal, HOD's and senior faculty members. The prime motivation of research encourages the stakeholders to take up innovative ideas to be transformed into creative research projects. The idea generation hubs especially include the Innovation and Incubation Cell that promotes skills and knowledge to build up strong aspirations through Entrepreneurial Development Cell. The Intellectual Property Rights Cell is established to protect the innovations under patent law. The Laboratories are well equipped with sophisticated instruments like UV-Vis Spectrophotometer, HPLC, Dissolution apparatus, Bulk density apparatus, Rotatory tablet punching machine, Auto analyser (R 3000), Laminar air flow chamber, BOD incubator, Soxhlet apparatus and Clevenger apparatus etc. as per the demand of the course. The AMC monitoring center is established under Pharmacovigilance Center Of India, (PvPI) Ghaziabad. The drug information softwares like IBM Micromedex, Medicine Complete and Clinirex are available and Simulation softwares like ExPharm Pro, X Cology Pro were subscribed with latest up gradation to T02022.

Experimental Pharmacology Series Software. Institute has e-library subscription services like DELNET, JGate. Institute has a CPCSEA approved animal house promoting pharmacological screening.

## **Outcome:**

**UG and PG, Pharm. D Research Projects:** The UG and PG, Pharm.D students are imbued to work on minor and major research projects under faculty expertise that are conducted in institution labs and in collaboration with pharmaceutical industries.

**Seminars/Workshops:** The institution has organized workshops/seminars disseminating knowledge on latest research activities in partnership with industrial experts/eminent academicians.

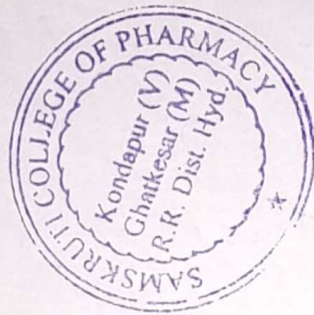
**Collaboration activities and MoUs:** The Institution has signed 10 MoUs with well established industries and hospitals to improve research activity at the institute. The institute has collaborations with pharmaceutical industries like Progenerics Ltd, Avinida life sciences, Climed research solutions, analytical labs like Sura Labs and foreign educational institutions like Malaysian university.

**Webinars:** Institution encourages organizing and attending online webinars and also with student forums

like IPASF, IPA on the recent trends and innovations in the field of pharmacy.

**Support for PhD work:** The faculty members pursuing PhD from different universities can utilize state of art infrastructure and resources available at the institute.

**Industrial Visits:** To understand the departmental sections, QA, QC protocols and operational procedures at pharmaceutical industries, the IIC cell along with Industry-Institute Interaction Cell, entrepreneurship cell to visit industries with student and faculty.



**Principal**

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INNOVATION & INCUBATION CENTRE



# SAMSKRUTI COLLEGE OF PHARMACY



FOCUS POINT

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ABNORMALITY CHECK

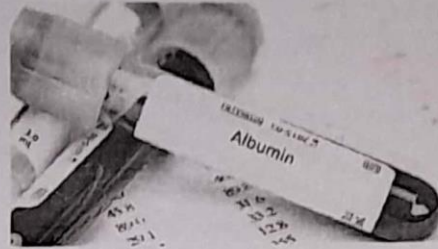


  
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# ALBUMIN

## NORMAL RANGE

3.5 - 5.2 g/dL



## ABNORMALITIES

- Lower albumin levels may be a cause of malnutrition.
- Higher albumin levels indicate acute infections, burns, and stress from surgery or a heart attack

Your doctor may suggest the albumin test if you have symptoms like excess protein in the urine, swelling, yellow skin or eyes, feelings of weakness or exhaustion, rapid heartbeat, vomiting, diarrhea, nausea, appetite changes, thinning hair, etc.

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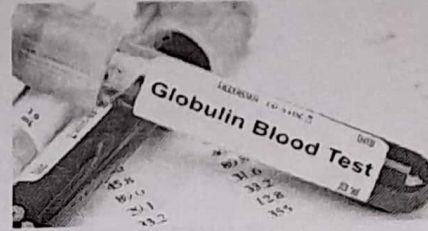
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# GLOBULIN

## NORMAL RANGE

2.0 - 3.5 g/dL



## ABNORMALITIES

- Low globulin levels can be a sign of liver or kidney disease.
- High globulin levels may also indicate certain types of cancer, such as multiple myeloma, Hodgkin's disease, or malignant lymphoma.

Your doctor may suggest the globulin test if you have symptoms like: Nausea and vomiting, itching, recurring fatigue, fluid buildup in the abdomen, feet, and legs, Loss of appetite, jaundice, etc.

  
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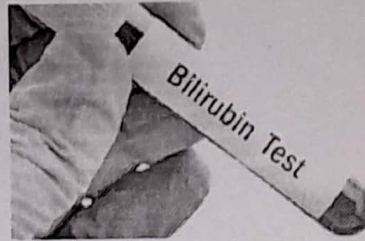
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# SERUM BILIRUBIN

## NORMAL RANGE

0.22 to 1.0 mg/dL



## ABNORMALITIES

- Low bilirubin levels usually don't cause any symptoms.
- Higher than normal levels of direct bilirubin in your blood may indicate your liver isn't clearing bilirubin properly.

Your doctor may suggest a bilirubin test if you are experiencing signs of jaundice, have anemia, or low red blood cells, a toxic reaction to drugs, history of heavy drinking, exposure to hepatitis viruses, or have cirrhosis

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# ALP

**FULL FORM:** Alkaline Phosphatase

**NORMAL RANGE:** 44-147 IU/L

## ABNORMALITIES

- Lower ALP levels in your blood are rare, but they can indicate malnutrition, which could be caused by celiac disease or a deficiency in certain vitamins and minerals.
- Higher levels of ALP in your blood may indicate a problem with your liver or gallbladder. This could include hepatitis, cirrhosis, liver cancer, gallstones, or a blockage in your bile ducts.

Your doctor may suggest this test if you have symptoms like nausea, vomiting, jaundice, abdominal pain.



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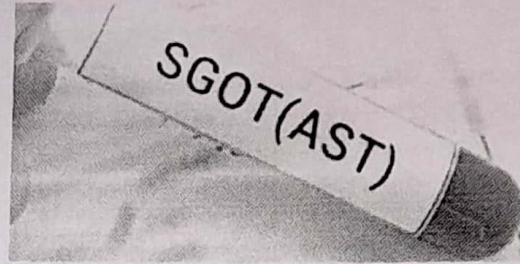
# SGOT

## FULL FORM

Serum glutamic-oxaloacetic transaminase

## NORMAL RANGE

8-45 Units/L

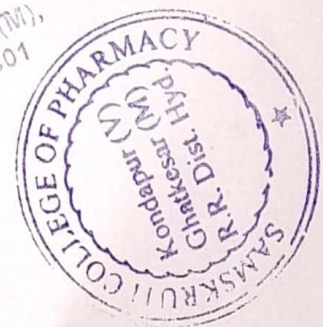


## ABNORMALITIES

- Higher levels of SGOT indicate liver damage and damage to other organs like muscles, heart, brain, and kidneys.

Your doctor may suggest this test if you are experiencing symptoms like fatigue, weakness, a loss of appetite, nausea, vomiting, swelling of your abdomen, yellow skin or eyes, which is called jaundice, dark urine.

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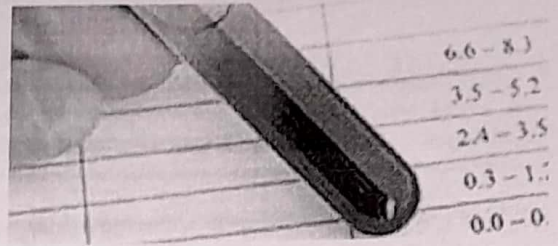
# SGPT

## FULL FORM

Serum glutamic-pyruvic transaminase

## NORMAL RANGE

7-56 Units/L




## ABNORMALITIES

- Higher levels of SPGT can indicate liver damage. Increased levels of SGPT may be a result of Hepatitis, cirrhosis, tumor, etc.

Your doctor may suggest this test if you are experiencing nausea, vomiting, yellowness of eyes, abdominal pain.



  
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## STEPS TO COMBAT STRESS DURING LOCKDOWN



Yoga Poses To Reduce Stress & Anxiety During Lockdown



1. Maintain a healthy lifestyle.
2. Restrict yourself from spending lot of time on social media
3. Eat healthy food, drink plenty of fluids, maintain sufficient intake of vitamin C it helps to boost your immunity system.
4. Be physically active, do simple indoor exercises and meditate and yoga for calming down the stress levels.
5. If you are on medication, remember to take it as prescribed.
6. Make yourselves busy with all the professional office works or student academic works and some creative skills for relaxation.
7. Rediscover your good habits those that you left in the past due to your busy lifestyle.
8. People who have anxiety issues can use telehealth as an option to talk to a professional if anxiety becomes unmanageable.

### CHILDREN AND YOUNGER ONES

- Educate your children and let them know the seriousness of COVID-19 and safety measures to be taken
- Keep them busy with some creative skills like painting, reading, drawing etc.
- Make them feel responsible and acquire new skills.
- Parents should monitor students academic works regarding online classes, assignments, projects and preparation for upcoming exams etc.

### ELDERLY (>60 YEARS OLD) PEOPLE

- Elderly people may feel confused, lost and need help. Offer them help by getting them what they need, their medicines, daily needs etc.
- People with some associated medical problems like cardiovascular (hypertension), diabetes, cancer and specifically chronic respiratory diseases are more vulnerable to COVID-19 so, family members need to monitor their health frequently



IPA-SF

#TOGETHER WE STAND VIRTUALLY



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## CLINICAL SIGNS AND SYMPTOMS OF COVID 19



FEVER 88%



DRY COUGH 67%



FATIGUE 38%



PHLEGM PRODUCTION 33%



SHORTNESS OF BREATH 13%



MUSCLE PAIN 15%



SORE THROAT 14%



HEAD ACHE 14%



IPASF

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SOURCE: WORLD HEALTH ORGANISATION (WHO)



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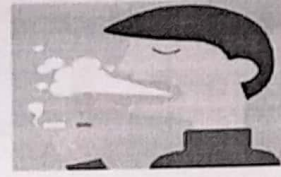
## కరోనా వైరస్ ప్రమాద కారకాలు



65 సంవత్సరాలకంటే ఎక్కువ వయస్సు ఉన్నవారు



పిల్లలు



ధూమపానం అలవాటు ఉన్నవారు



గుండె జబ్బు ఉన్నవారు



శ్వాసకోశ వ్యాధి ఉన్నవారు



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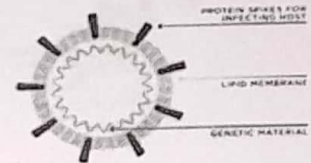


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## How Detergents Can kill Covid-19

The corona virus has a membrane of oily lipid molecules which is studded with proteins that help the virus infect cells



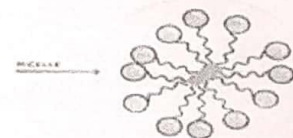
Soap Molecules have a hybrid structure, with a head that bonds to water and a tail that avoids it.



Soap Traps dirt and fragments of the destroyed virus in tiny bubbles called Micelles, which wash away in water.



Soap destroys the Virus when the water shunting tails of the soap molecules wedge themselves in to the lipid membrane and pry it apart



LEADS TO KILLING OF VIRUS

**STAY HOME**

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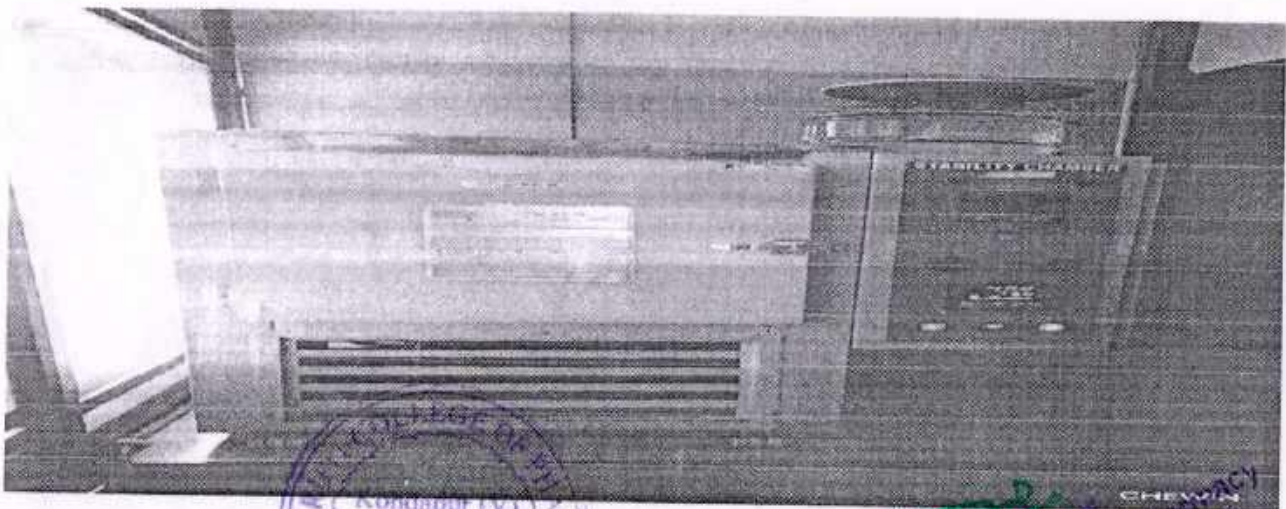
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## LAMINAR AIRFLOW



## STABILITY CHAMBER



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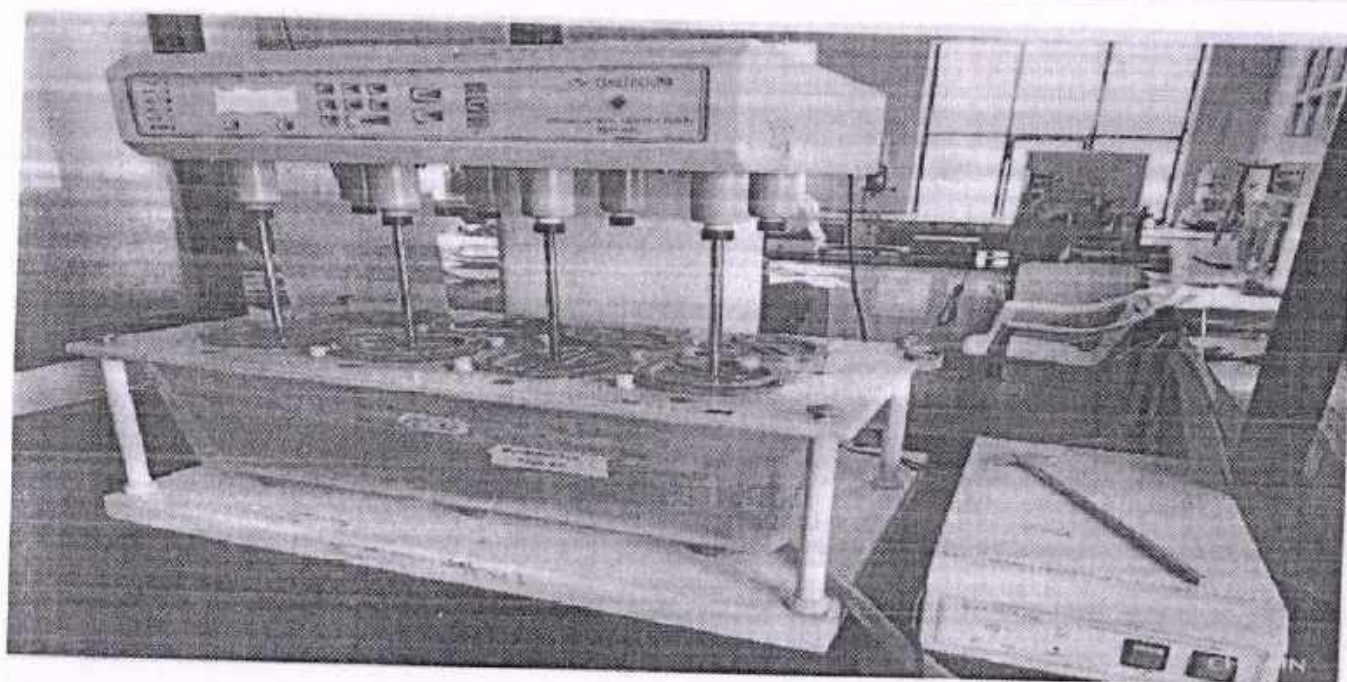
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DISSOLUTION APPARATUS



BOTTLE SEALING MACHINE



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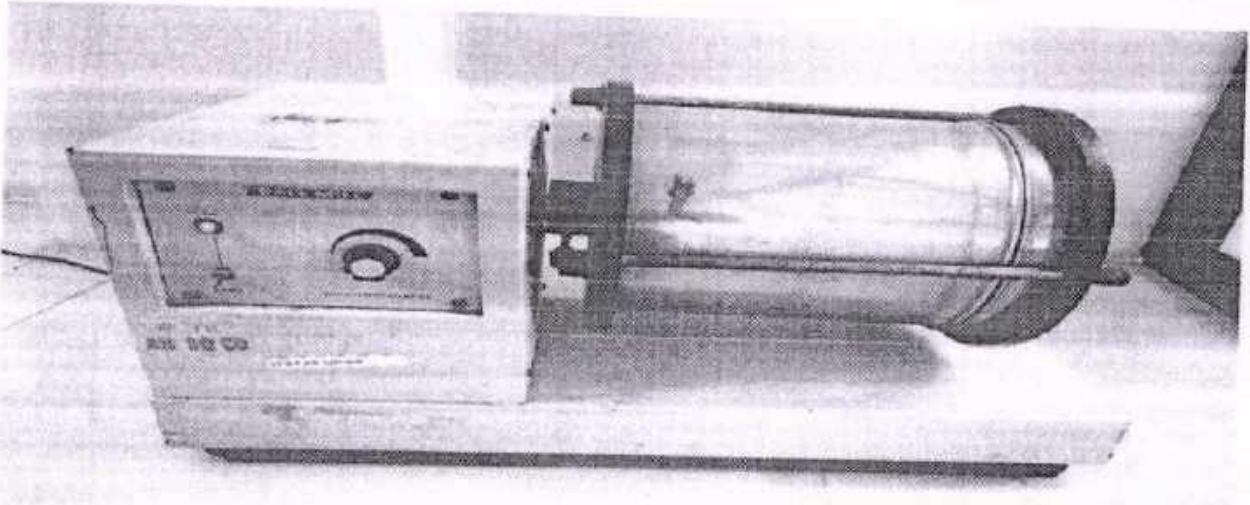
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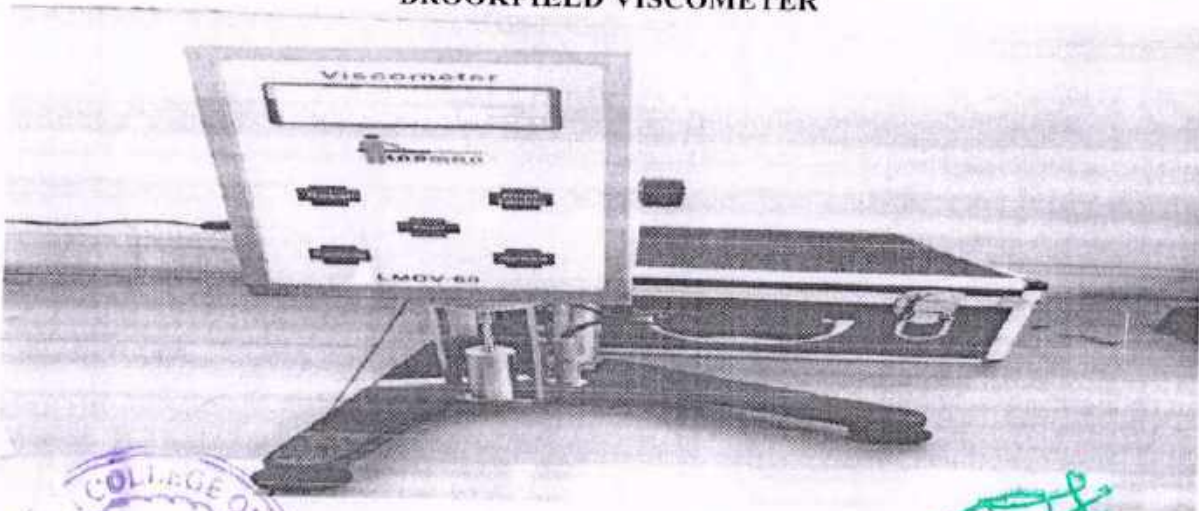
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## BALL MILL



## BROOKFIELD VISCOMETER



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