



PHYTOCHEMICAL SCREENING

Department of Biochemistry and Molecular Biology, College of Medicine
University of the Philippines Manila



PRIMARY METABOLITES

Test

Principle involved

1. Proteins and amino acids

Use albumin as positive control.

1.1. Ninhydrin test

To 0.5 mL of the sample, add 1-2 drops of 0.25% (w/v) Ninhydrin reagent. Mix and heat to boiling for 1-2 minutes.

(+) Development of purple-blue or blue color

COHEN, 2004, p. 242; COHEN, 2005, p. 242; BERTHIAUME AND LAMONTAGNE, 2006, p. 4598

or deep-violet / Ruhemann's purple
COHEN, 2004, p. 242

1.2. Biuret test

To 0.5 mL of the sample, add 0.5 mL of 10% NaOH. Add 0.5% CuSO₄ dropwise.

(+)

Development of blue color

COHEN, 2004, p. 279

pink color COHEN, 2004, p. 279

purplish violet or pinkish-violet color

COHEN, 2004, p. 279; COHEN, 2005, p. 282

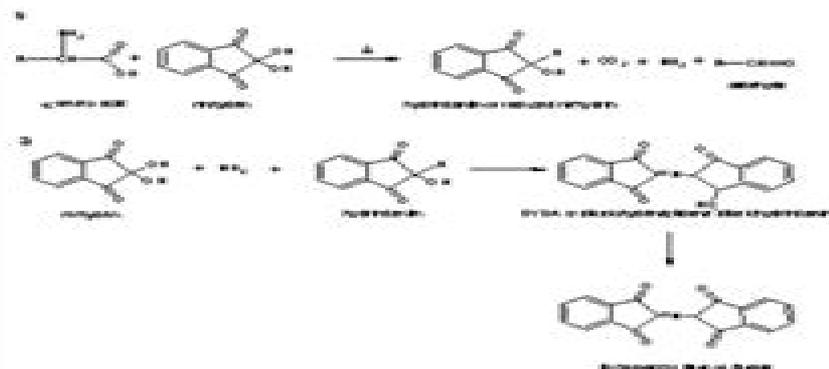
rose pink to violet to purple color

COHEN, 2004, p. 242; BERTHIAUME AND LAMONTAGNE, 2006, p. 4598

1.3. Xanthoproteic test

To 0.5 mL of the sample, add 0.25 mL of concentrated nitric acid. Heat carefully under the hood and observe whether the precipitate turns yellow and finally dissolves. Cool and add enough 4-5mL 10% NaOH to make the solution definitely alkaline.

(+) formation of orange to yellow color



Formation of copper-potassium-biuret compound (cupripotassium biuret or biuret potassium cupric hydroxide) from compounds containing 2 carbonyl (-CO-NH₂) groups joined either directly together or through a single atom (e.g., nitrogen).



Nitration of the benzene ring of tyrosine and/or tryptophan.



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Practical Aviation Security Jeffrey Price, Jeffrey Forrest, 2024-11-19 Practical Aviation Security Predicting and Preventing Future Threats Fourth Edition is a guide to the aviation security system from crucial historical events to the policies policymakers and major terrorist and criminal acts that have shaped the procedures in use today as well as the cutting edge technologies that are shaping the future Using case studies and practical security measures now in use at airports worldwide readers learn the effective methods and fundamental principles involved in designing and implementing a security system This expanded fourth edition covers new threats and technologies to reflect the latest knowledge in the field from the past decade This book will be ideal for airport airline charter government and others with aviation security responsibilities to better implement their security programs evaluate the ever changing risk environment and respond appropriately and responsibly Applies real world aviation experience to the task of anticipating and deflecting threats Covers commercial airport security general aviation and cargo operations threats threat detection and response systems as well as international security issues Offers new tactics and strategies based on peer reviewed academic and industry research for aviation security practitioners to implement to prevent deter or mitigate attacks on the system New to the fourth edition an update to the technologies and recent changes at the screening checkpoint and other passenger touch points with aviation security a new chapter on Conventional Threats including an expanded section on domestic violence extremism a new chapter on Asymmetrical Threats cyber unmanned aerial vehicle urban air mobility spaceport operations a new section on countermeasures in security operations

Clinical Laboratory Methods and Diagnosis Rutherford Birchard Hayes Gradwohl, 1963

Memoirs Edward Teller, Judith Schoolery, 2009-09-09 Edward Teller is perhaps best known for his belief in freedom through strong defense But this extraordinary memoir at last reveals the man behind the headlines passionate and humorous devoted and loyal Never before has Teller told his story as fully as he does here We learn his true position on everything from the bombing of Japan to the pursuit of weapons research in the post war years In clear and compelling prose Teller chronicles the people and events that shaped him as a scientist beginning with his early love of music and math and continuing with his study of quantum physics under Werner Heisenberg He also describes his relationships with some of the century's greatest minds Einstein Bohr Fermi Szilard von Neumann and offers an honest assessment of the development of the atomic and hydrogen bombs the founding of Lawrence Livermore Laboratory and his complicated relationship with J Robert Oppenheimer Rich and humanizing this candid memoir describes the events that led Edward Teller to be honored or abhorred and provides a fascinating perspective on the ability of a single individual to affect the course of history

Alphabetic Listing of Major War Supply Contracts United States. Civilian Production Administration, 1946

The American Experience Robert F. Madgic, 1971 An American history text stressing the issues of international and domestic conflicts

Technical Abstract Bulletin Defense Documentation Center (U.S.), 1961-04

Department of Homeland

Security Appropriations for Fiscal Year 2009 United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of Homeland Security,2008 **IARC Scientific Publications** ,1996 **Index of Specifications and Standards** ,2001 **Reduced Dose Mammography** Wende Westinghouse Logan, Eric Phillip Muntz,1979 **Prevention and Detection of Cancer: Detection: v. 1. High risk markers, detection methods and management. v. 2. Cancer detection in specific sites** Herbert E. Nieburgs,1978 **Acta Medica Nagasakiensia** ,1992 Vol 1 contains reprints of non Japanese articles and abstracts issued in Nagasaki Igakkai Zasshi v 17 Vols 2 contain some articles issued in the Japanese journal of medical sciences 1940 and abstracts of articles in Japanese issued in Nagasaki Igakkai Zasshi v 18

Preventive Medicine and Public Health Milton Joseph Rosenau, Kenneth Fuller Maxcy,1965 Las primeras ediciones por Waxcy Rosenau Digest of Papers ,1997 **Journal of the Institution of Petroleum Technologists** Institute of Petroleum (Great Britain),1969 Vols 7 include Abstracts which beginning with v 9 form a separately paged section and from v 17 on have separate title pages *Mechanical Engineering* American Society of Mechanical Engineers,1921 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908 *Prevention and Detection of Cancer* Herbert E. Nieburgs,1978 **Daily Trade Bulletin** ,1888 Prevention and Detection of Cancer: Etiology Herbert E. Nieburgs,1978 *British Chemical Abstracts* ,1933

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web photo credit francis yap the asian fairy bluebird irena puella is an eye catching bird with its bright blue crown black rump and undertail feathers it also has red eyes the female bird is slightly duller with blue feathers and blue black wings

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web the bluebird comprises a small group of songbirds in the turdidae family there are three different species all of which live in north america and central america these are the eastern western and mountain bluebirds

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web jun 7 2022 in fact there aren't any bird species that actually create blue pigment instead the blue color of their plumage is all optics and is created by the way light waves interact with their feathers here are 16 types of blue birds that have managed to express all different shades of blue 1 blue grosbeak

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web by mika sep 30 2022 tribes a hogan is a traditional navajo home the word hogan comes from the navajo word hooghan which means house a hogan is usually made out of logs mud and stone the navajo people have lived in hogan s for centuries the hogan is a very important part of navajo culture

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web mar 2 2022 a hogan a traditional handcrafted home built out of eight walls and rooms is the perfect setting to showcase the authentic flavors of navajo the hogan is primarily used for ceremonial purposes but some individuals in the area are actually lodging tourists so they can experience the true culture and tradition of the area

usu blanding to construct navajo hogan on campus - May 19 2022

web may 12 2021 utah state university blanding has announced plans to construct a native american hogan for its students on campus the structure will be in the traditional hogan style preliminary groundwork has already begun on the new structure and construction will begin in the next couple weeks on campus

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web follow our easy how to build a navajo hogan instructions remember we are going to make this hogan in the traditional navajo way so it all begins with a prayer one that asks for a good home now we have to go and gather

have you heard of a navajo hogan architectural digest - Aug 02 2023

web may 2 2018 tiny homes are a thing these days but let s pay our respects to the ogs one of the most striking is the navajo hogan a basic dome shaped one room dwelling that dates to the early 1400s and

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web jul 27 2021 the hogan style home prototype is approximately 1 200 square feet and consists of two bedrooms one bathroom a laundry room and an open floor plan for the kitchen and living room other floor plans also include three four and five bedrooms the lack of suitable and safe housing on the navajo nation is a serious issue

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web the navajos used to make their houses called hogans of wooden poles tree bark and mud the doorway of each hogan opened to the east so they could get the morning sun as well as good blessings today many diné families still live in hogans although trailers or more modern houses are tending to replace them

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