

Ph Value Of Urine

Urine test strip acidic urine, while diets mainly composed of vegetables tend to produce alkali urine. Commercial brands measure pH in increments of 0. 5 or 1 pH units between A urine test strip or dipstick is a basic diagnostic tool used to determine pathological changes in a patient's urine in standard urinalysis

The test strips consist of a ribbon made of plastic or paper of about 5 millimetre wide. Plastic strips have pads impregnated with chemicals that react with the compounds present in urine producing a characteristic colour. For the paper strips the reactants are absorbed directly onto the paper. Paper strips are often specific to a single reaction (e.g. pH measurement), while the strips with pads allow several... Physiology A standard urine test strip may comprise up to 10 different chemical pads or reagents which react (change color) when immersed in, and then removed from, a urine sample. The test can often be read in as little as 60 to 120 seconds after dipping, although certain tests require longer. Routine testing of the urine with multiparameter strips is the first step in the diagnosis of a wide range of diseases. The analysis includes testing for the presence of proteins, glucose, ketones, haemoglobin, bilirubin, urobilinogen, acetone, nitrite and leucocytes as well as testing of pH and specific gravity or to test for infection by different pathogens. There is a large and growing number of treatment options to make excreta safe and manageable for the intended reuse option. Options include urine diversion and dehydration of feces (urine-diverting dry toilets), composting (composting toilets or external composting processes), sewage sludge treatment technologies and a range of fecal sludge treatment processes. They all achieve various degrees of pathogen removal and reduction...

Diuresis form in urine and where the pH of urine can be adjusted to levels above or below the pK value of the active form of drug. The term collectively denotes the physiologic processes underpinning increased urine production by the kidneys during maintenance of fluid balance. For acidic drugs, urine pH should Diuresis () is the excretion of urine, especially when excessive (polyuria)

A drug test may also refer to a test that provides quantitative chemical analysis of an illegal drug, typically intended to help with responsible drug use.

Urine-diverting dry toilet The UDDT is an example of a technology that can be used to achieve a sustainable sanitation system. The separate collection of feces and urine without any flush water has many advantages, such as odor-free operation and pathogen reduction by drying. A urine-diverting dry toilet (UDDT) is a type of dry toilet with urine diversion that can be used to provide safe, affordable sanitation in a variety of A urine-diverting dry toilet (UDDT) is a type of dry toilet with urine diversion that can be used to provide safe, affordable sanitation in a variety of contexts worldwide. This dry excreta management system (or "dry sanitation" system) is an alternative to pit latrines and flush toilets, especially where water is scarce, a connection to a sewer system and centralized wastewater treatment plant is not feasible or desired, fertilizer and soil conditioner are needed for agriculture, or groundwater pollution should be minimized. While dried feces and urine harvested from UDDTs can be and routinely are used in agriculture (respectively, as a soil amendment and nutrient-rich fertilizer—this practice being known as reuse of excreta in agriculture), many UDDT installations do not apply any sort of recovery scheme

== Osmotic diuresis == The pH scale is logarithmic and inversely indicates the activity of hydrogen cations in the solution pH The detection windows depend upon multiple factors: drug class, amount and frequency of use, metabolic...

Drug test Major applications of drug testing include detection of the presence of performance enhancing steroids in sport, employers and parole/probation officers screening for drugs prohibited by law (such as cocaine, methamphetamine, and heroin) and police officers testing for the presence and concentration of alcohol (ethanol) in the blood commonly referred to as BAC (blood alcohol content). amount and frequency of use, metabolic rate, body mass, age, overall health, and urine pH. Numerous other methods with varying degrees of accuracy, sensitivity (detection threshold/cutoff), and detection periods exist. BAC tests are typically administered via a breathalyzer while urinalysis is used for the vast majority of drug testing in sports and the workplace. For ease of use, the detection times of metabolites have been A drug test (also often toxicology screen or tox screen) is a technical analysis of a biological specimen, for example urine, hair, blood, breath, sweat, or oral fluid/saliva—to determine the presence or absence of specified parent drugs or their metabolites

Urine electrolyte levels The urine concentrations of sodium, chlorine and potassium may be used to investigate conditions such as abnormal blood electrolyte levels, acute kidney injury, metabolic alkalosis and hypovolemia. Other electrolytes that can be measured in urine are calcium, phosphorus and magnesium. The urine concentrations of sodium, chlorine and potassium may Urine electrolyte levels can be measured in a medical laboratory for diagnostic purposes. Urine electrolyte levels can be measured in a medical laboratory for diagnostic purposes

In mammals, urine travels from the kidneys via the ureters to the bladder for storage until urination. Placental mammals expel urine from the bladder through the urethra, whereas other vertebrates urinate through the cloaca. Human urine and feces, called human waste or human excreta, are managed via sanitation systems. Livestock urine and feces also require proper management if the livestock population density is high. Urine plays an important role in the earth's nitrogen cycle. In balanced ecosystems, urine fertilizes the soil and thus helps plants to grow. Therefore, urine can be used as a fertilizer. Some animals mark their territories with urine. Historically, aged or fermented urine (known as lant) was also used in gunpowder production, household cleaning, leather tanning, and textile dyeing. Bacteria in the urine can be found through bacteria culture test. People with purple urine bag syndrome may present with elevated bacterial loads on their culture tests when compared to those who are not affected by this syndrome. The...

Urine Urine is the fluid excreted by the kidneys of vertebrates to clear the bloodstream of excess water and metabolic by-products including urea, uric acid Urine is the fluid excreted by the kidneys of vertebrates to clear the bloodstream of excess water and metabolic by-products including urea, uric acid, and creatinine ad6e7e7ea7

In healthy people, the drinking of extra water produces mild diuresis to maintain the body water balance. Many people with health issues, such as heart failure and kidney failure, need diuretic medications to help their kidneys deal with the fluid overload of edema. These drugs promote water loss via urine production. The concentrations of electrolytes in the blood are closely linked to fluid balance, so any action or problem involving fluid intake or output (such as polydipsia, polyuria, diarrhea, heat exhaustion, starting or changing doses of diuretics, and others) can require management of electrolytes, whether through self-care in mild cases or with help from health professionals in moderate or severe cases. ad6e7e7ea7

PH While the origin of the symbol 'pH' can be traced In chemistry, pH (or ; pee-AYCH) is a logarithmic scale used to specify the acidity or basicity of aqueous solutions. concentrations of hydrogen (H+) cations) are measured to have lower pH values than basic or alkaline solutions. Acidic solutions (solutions with higher concentrations of hydrogen (H+) cations) are measured to have lower pH values than basic or alkaline solutions. While the origin of the symbol 'pH' can be traced back to its original inventor, and the 'H' refers clearly to hydrogen, the exact original meaning of the letter 'p' in pH is still disputed; it has since acquired a more general technical meaning that is used in numerous other contexts ad6e7e7ea7

== References == ad6e7e7ea7 == Detection periods == ad6e7e7ea7 == Background == ad6e7e7ea7

Urinalysis Macroscopic examination targets parameters such as color, clarity, odor, and specific gravity; urine test strips measure chemical properties such as pH, glucose concentration, and protein levels; and microscopy is performed to identify elements such as cells, urinary casts, crystals, and organisms. a portmanteau of the words urine and analysis, is a panel of medical tests that includes physical (macroscopic) examination of the urine, chemical evaluation Urinalysis, a portmanteau of the words urine and analysis, is a panel of medical tests that includes physical (macroscopic) examination of the urine, chemical evaluation using urine test strips, and microscopic examination ad6e7e7ea7

Purple urine bag syndrome Constipation alters the gut bacteria, reducing gastrointestinal motility and leading to increased growth of bacteria in the colon. Bacteria in urine produce the enzyme indoxyl sulfatase. High bacterial counts in urine are the most important factor causing purple urine bag syndrome. Purple urine bag syndrome (PUBS) is a medical syndrome where purple discoloration of urine collection bag occurs in people with urinary catheters and Purple urine bag syndrome (PUBS) is a medical syndrome where purple discoloration of urine collection bag occurs in people with urinary catheters and co-existent urinary tract infections. PUBS is most prevalent in elderly females with constipation. The purple discoloration is the result of reaction between indirubin and plastic urine bags, as well as the presence of indigo. Indirubin dissolves in plastic and therefore causes urine discoloration. This converts indoxyl sulfate in the urine into the red and blue colored compounds indirubin and indigo. People with urinary tract infections using catheters will increase the conversion of indoxyl sulfatase to indirubin and indigo ad6e7e7ea7

Reuse of human excreta Options include urine diversion and dehydration of feces (urine-diverting dry toilets), composting (composting toilets Reuse of human excreta can be safe or unsafe. manageable for the intended reuse option. The intended reuse applications for the nutrient content may include: soil conditioner or fertilizer in agriculture or horticultural activities. Beneficial uses of the treated excreta may focus on using the plant-available nutrients (mainly nitrogen, phosphorus and potassium) that are contained in the treated excreta. Other reuse applications, which focus more on the organic matter content of the excreta, include use as a fuel source or as an energy source in the form of biogas. They may also make use of the organic matter and energy contained in the excreta. To a lesser extent, reuse of the excreta's water content might also take place, although this is better known as water reclamation from municipal wastewater ad6e7e7ea7

Osmotic diuresis is the increase of urination rate caused by the presence of certain substances in the proximal tubule (PCT) of the kidneys. The excretion occurs when substances such as glucose enter the kidney tubules and cannot be... ad6e7e7ea7 There are several types of UDDTs: the single vault type which has only one feces vault; the double vault type which has two feces vaults... ad6e7e7ea7

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