

Specific Gravity Test For Urine

The value of urine for diagnostic purposes has been recognized since ancient times. Urine examination was practiced in Sumer and Babylonia as early as 4000 BC, and is described in ancient Greek and Sanskrit texts. Contemporary urine testing uses a range of methods to investigate the physical and biochemical properties of the urine. For instance, the results of the routine urinalysis can provide information about the functioning of the kidneys and urinary system; suggest the presence of a urinary tract infection (UTI); and screen for possible diabetes or liver disease, among other conditions. A urine culture can be performed to identify the bacterial species involved in a UTI. Simple point-of-care tests can detect pregnancy by... d76fb86f36 == Physiology == d76fb86f36 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. d76fb86f36 A hydrometer usually consists of a sealed hollow glass tube with a wider bottom portion for buoyancy, a ballast such as lead or mercury for stability, and a narrow stem with graduations for measuring. The liquid to test is poured into a tall container, often a graduated cylinder, and the hydrometer is gently lowered into the liquid until it floats freely. The point at which the surface of the liquid touches the stem of the hydrometer correlates to relative density. Hydrometers can contain any number of scales along the stem corresponding to properties correlating to the density. d76fb86f36 == Background == d76fb86f36

Reference ranges for urine tests Reference ranges for urine tests are described below: Reference range Reference ranges for blood tests Simerville JA, Maxted WC, Pahira JJ (March 2005) Reference ranges for urine tests are described below: d76fb86f36

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

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the strips with pads allow several... Although struvite was briefly mentioned in Hooke's Micrographia, it was first described in detail in 1845 by the German chemist Georg Ludwig Ulex (1811–1883), who found crystals of struvite in what he surmised had once been a medieval midden in Hamburg, Germany; he named the new mineral after the geographer and geologist Heinrich Christian Gottfried von Struve (1772–1851) of Hamburg. Hydrometers are calibrated for different uses, such as a lactometer for measuring the density (creaminess) of milk, a saccharometer for measuring the density of sugar in a liquid, or an alcoholometer for measuring higher levels of alcohol in spirits. The hydrometer makes use of Archimedes' principle: a solid suspended in a fluid is buoyed by a force equal to the weight of the fluid... Reference ranges for blood tests

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. examination targets parameters such as color, clarity, odor, and specific gravity; urine test strips measure chemical properties such as pH, glucose concentration 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

== Name ==

Relative density (0.980 and 1.020 g/L. G. or SG) is gradually being abandoned. 0 °F). d. density of 1. The urine specific gravity diagnostic test is used to evaluate renal Relative density, also called specific gravity, is a dimensionless quantity defined as the ratio of the density (mass divided by volume) of a substance to the density of a given reference material. The term "relative density" (abbreviated r. or RD) is preferred modern use, for example in ISO, IUPAC, and NIST whereas the term "specific gravity" (abbreviated S. Urine normally has a relative density between 1.030. 2 °F); for gases, the reference is air at room temperature (25 °C or 77. The relative density of solids and liquids is nearly always measured with respect to water at its densest (at 4 °C or 39

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Struvite urinary stones and crystals form readily in the urine of animals and humans that are infected with ammonia-producing organisms. They are potentiated by alkaline urine and high magnesium excretion (high magnesium/plant-based diets). They also are potentiated by a specific urinary protein in domestic cats. d76fb86f36 == Detection periods == d76fb86f36 == See also == d76fb86f36 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. d76fb86f36 If a substance's relative density is less than 1 then it is less dense than the reference; if greater than 1 then it is denser than the reference. If the relative density is exactly 1 then the densities are equal; that is, equal volumes of the two substances have the same mass. If the reference material is water, then a substance with a relative density less than 1 will float in water. For example, an ice cube, with a relative density of about 0.91, will float. A substance with a relative density greater than 1 will sink. d76fb86f36

Urine test A urine test is any medical test performed on a urine specimen. Common urine tests include the routine urinalysis, which examines the physical, chemical, and microscopic properties of the urine; urine drug screening; and urine pregnancy testing. The analysis of urine is a valuable diagnostic tool because its composition reflects the A urine test is any medical test performed on a urine specimen. The analysis of urine is a valuable diagnostic tool because its composition reflects the functioning of many body systems, particularly the kidneys and urinary system, and specimens are easy to obtain d76fb86f36

Reference range d76fb86f36

Hydrometer more scales such as specific gravity. They are typically calibrated and graduated with one or more scales such as specific gravity. A hydrometer usually consists of a sealed hollow glass tube with a wider bottom portion for buoyancy, a ballast A hydrometer or lactometer is an instrument used for measuring density or relative density of liquids based on the concept of buoyancy d76fb86f36

The detection windows depend upon multiple factors: drug class, amount and frequency of use, metabolic... d76fb86f36

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Temperature and pressure must be specified for both the sample and the... d76fb86f36

Urine specific gravity Adults generally have a specific gravity in the Specific gravity, in the context of clinical pathology, is a urinalysis parameter commonly used in the evaluation of kidney function and can aid in the diagnosis of various renal diseases. In adult humans, normal specific gravity values range from 1. 030. 010 to 1. the urine's specific gravity d76fb86f36

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. d76fb86f36

Drug test Numerous other methods with varying degrees of accuracy, sensitivity (detection threshold/cutoff), and detection periods exist. 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). Others are intended to 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. additional parameters are tested for. Some test the properties of normal urine, such as, urine creatinine, pH, and specific gravity. BAC tests are typically administered via a breathalyzer while urinalysis is used for the vast majority of drug testing in sports and the workplace d76fb86f36

== Background == d76fb86f36 == Background == d76fb86f36

Struvite 7. 5 to 2 and has a low specific gravity of 1. 5 to 2 and has a low specific gravity of 1. 7. It is a soft mineral with Mohs hardness of 1. It is sparingly soluble in neutral and alkaline conditions Struvite (magnesium ammonium phosphate, sometimes abbreviated as MAP) is a phosphate mineral with formula: $\text{NH}_4\text{MgPO}_4 \cdot 6\text{H}_2\text{O}$. It is sparingly soluble in neutral and alkaline conditions, but readily soluble in acid. It is a soft mineral with Mohs hardness of 1. Struvite crystallizes in the orthorhombic system as white to yellowish or brownish-white pyramidal crystals or in platy mica-like forms d76fb86f36

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Urine test strip The test strips consist of a ribbon made A urine test strip or dipstick is a basic diagnostic tool used to determine pathological changes in a patient's urine in standard urinalysis. nitrite and leucocytes as well as testing of pH and specific gravity or to test for infection by different pathogens d76fb86f36

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. d76fb86f36

Urine Urine is not sterile, not even in the bladder, contrary 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. chlorothiazide diuretics, and methenamine mandelate. 035. 003-1. Human urine has a specific gravity of 1 d76fb86f36

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. d76fb86f36

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