

Nitrite In Urine Meaning

The one-letter symbol R was assigned to arginine for its phonetic similarity in English. d105e93247 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. d105e93247 It has been classified as a Group 1 carcinogen. Although no adequate studies of the relationship between exposure to NNN and human cancer have been reported, there is sufficient evidence that NNN causes cancer in experimental animals. d105e93247

Urine test strip A urine test strip or dipstick is a basic diagnostic tool used to determine pathological changes in a patient's urine in standard urinalysis. A standard A urine test strip or dipstick is a basic diagnostic tool used to determine pathological changes in a patient's urine in standard urinalysis d105e93247

== Toxicity == d105e93247 The nitrogen cycle is of particular interest to ecologists because nitrogen availability can affect the rate of key ecosystem processes, including primary production and decomposition. Human activities such as fossil fuel combustion, use of artificial nitrogen fertilizers, and release of nitrogen in wastewater have dramatically altered the global nitrogen cycle. Human modification of the global nitrogen cycle can negatively affect the natural environment system and also human health. d105e93247

Nitrogen cycle Important processes in the nitrogen cycle include fixation, ammonification, nitrification, and denitrification. Nitrogen is present in the environment in a wide variety of chemical forms including organic nitrogen, ammonium (NH⁺₄), nitrite (NO⁻₂), nitrate (NO⁻₃) The nitrogen cycle is the biogeochemical cycle by which nitrogen is converted into multiple chemical forms as it circulates among atmospheric, terrestrial, and marine ecosystems. The conversion of nitrogen can be carried out through both biological and physical processes. However, atmospheric nitrogen has limited availability for biological use, leading to a scarcity of usable nitrogen in many types of ecosystems. The majority of Earth's atmosphere (78%) is atmospheric nitrogen, making it the largest source of nitrogen d105e93247

Cyanide An older cyanide antidote kit included administration of three substances: amyl nitrite pearls (administered by inhalation), sodium nitrite, In chemistry, a cyanide (from Greek kyanos 'dark blue') is an inorganic chemical compound that contains a C≡N functional group. in 2006. This group, known as the cyano group, consists of a carbon atom triple-bonded to a nitrogen atom d105e93247

Benznidazole has a significant activity during the acute phase of Chagas disease, with a success rate of up to 80%. Its curative capabilities during the chronic phase are, however, limited. Some studies have found parasitologic... d105e93247 Benznidazole came into medical use in 1971. It is on the World Health Organization's List of Essential Medicines. As of 2012, Laboratório Farmacêutico do Estado de Pernambuco, a government run pharmaceutical company in Brazil was the only producer. d105e93247 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. d105e93247 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. d105e93247 == Etymology == d105e93247

Urinalysis diet low in vegetables can lead to low nitrate levels in the urine, meaning that nitrites cannot be produced. 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. False positive results can occur in samples 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 d105e93247

Cyanocobalamin is generally well tolerated. Minor side effects may include diarrhea, nausea, upset stomach, and itchiness. Serious side effects may include anaphylaxis, and low blood potassium resulting in heart failure. Use is not recommended in those who are allergic to cobalt or have Leber's disease. No overdosage or toxicity has been recorded by the FDA. It is less preferred than hydroxocobalamin for treating vitamin B12 deficiency because it has a slightly lower bioavailability. Some studies have shown it to possess an antihypotensive effect. Vitamin B12 is an essential nutrient meaning that it cannot be made by the body but is required for life. d105e93247 Side effects are fairly common. They include rash, numbness, fever, muscle pain, loss of appetite, and trouble sleeping. Rare side effects include bone marrow suppression which can lead to low blood cell levels. It is not recommended during pregnancy or in people with severe liver or kidney disease. Benznidazole is in the nitroimidazole family of medication and works by the production of free radicals. d105e93247

Benznidazole nitro radical can then either engage in other redox reactions directly or spontaneously give rise to a nitrite ion and imidazole radical instead. The Benznidazole is an antiparasitic medication used in the treatment of Chagas disease. It is the first-line treatment given its moderate side effects compared to nifurtimox. It is taken by mouth. While it is highly effective in early disease, the effectiveness decreases in those who have long-term infection d105e93247

== Processes == d105e93247 == Physiology == d105e93247 Saccharin derives its name from the word "saccharine", meaning "sugary". Both words are derived from the Greek word σάκχαρον (sákkharon) meaning "gravel". Similarly, saccharose is an obsolete name for sucrose (table sugar). d105e93247

N-Nitrosonornicotine acidic conditions present in the tobacco curing process. It can also be formed in the stomach when stomach acid reacts with nitrite ions that are typically N-Nitrosonornicotine (NNN) is a tobacco-specific nitrosamine produced during the curing and processing of tobacco d105e93247

Covalent cyanides contain the $\text{--C}\equiv\text{N}$ group, and are usually called nitriles if the group is linked by a single covalent bond to carbon atom. For example, in acetonitrile $\text{CH}_3\text{--C}\equiv\text{N}$, the cyanide group is bonded to methyl --CH_3 . In tetracyanomethane $\text{C}(\text{--C}\equiv\text{N})_4$, four cyano groups are bonded to carbon. Although nitriles generally do not release cyanide ions, the cyanohydrins do and are thus toxic. The cyano group may be covalently bonded to atoms other than carbon, e.g., in cyanogen azide $\text{N}_3\text{--C}\equiv\text{N}$, phosphorus tricyanide $\text{P}(\text{--C}\equiv\text{N})_3$ and trimethylsilyl cyanide $(\text{CH}_3)_3\text{Si--C}\equiv\text{N}$. d105e93247 == Background == d105e93247

Urine In mammals, urine travels from the kidneys via the ureters to the bladder for storage until urination. creatinine. Placental mammals expel urine from the 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 d105e93247

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. d105e93247 Ionic cyanides contain the cyanide anion $\text{--C}\equiv\text{N}$. This anion is extremely toxic and causes cyanide poisoning. Soluble cyanide salts such as sodium cyanide (NaCN), potassium cyanide (KCN) and tetraethylammonium cyanide $[(\text{CH}_3\text{CH}_2)_4\text{N}]\text{CN}$ are also highly toxic. d105e93247 == History == d105e93247

Saccharin Saccharin is a sultam that is about 500 times sweeter than sucrose, but has a bitter or metallic aftertaste, especially at high concentrations. methyl anthranilate successively reacts with nitrous acid (from sodium nitrite and hydrochloric acid), sulfur dioxide, chlorine, and then ammonia to yield Saccharin, also called saccharine, benzosulfimide, or E954, or used in saccharin sodium or saccharin calcium forms, is a non-nutritive artificial sweetener. It is used to sweeten products, such as drinks, candies, baked goods, tobacco products, excipients, and for masking the bitter taste of some medicines. It appears as white crystals and is odorless d105e93247

Cyanocobalamin The deficiency may occur in pernicious anemia, following surgical removal of the stomach, with fish tapeworm, or due to bowel cancer. It is given by mouth, by injection into a muscle, or as a nasal spray. converted to cyanocobalamin by addition of potassium cyanide in the presence of sodium nitrite and heat. Since multiple species of Propionibacterium produce Cyanocobalamin is a form of vitamin B12 used to treat and prevent vitamin B12 deficiency except in the presence of cyanide toxicity d105e93247

== Medical uses == d105e93247

Arginine Only the L-arginine (symbol Arg or R) enantiomer is found naturally. At physiological pH, the carboxylic acid is deprotonated ($\text{--CO}_2\text{--}$) and both the amino and guanidino groups are protonated, resulting in a cation. Like all amino acids, it is a white, water-soluble solid. citrulline accumulates in nitric oxide producing cells along with nitrate and nitrite, the stable end-products of nitric oxide breakdown. The guanidine group in arginine is the precursor for the biosynthesis of nitric oxide. In bacteria, biosynthesis Arginine is the amino acid with the formula $(\text{H}_2\text{N})(\text{HN})\text{CN}(\text{H})(\text{CH}_2)_3\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$. The molecule features a guanidino group appended to a standard amino acid framework. It is encoded by the codons CGU, CGC, CGA, CGG, AGA, and AGG. Arg residues are common components of proteins d105e93247

Hydrogen cyanide, or $\text{H--C}\equiv\text{N}$, is a highly volatile toxic liquid that is produced on a large scale industrially. It is obtained by acidification of cyanide salts... d105e93247 Cyanocobalamin was first manufactured in the 1940s. It is available as a generic medication and over the counter. In 2023, it was the 104th most commonly prescribed medication in the United States, with... d105e93247 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... d105e93247 Arginine was first isolated in 1886 from yellow lupin seedlings by the German chemist Ernst Schulze and his assistant Ernst Steiger. He named it from the Greek *árgyros* (ἄργυρος) meaning "silver" due to the silver-white appearance of arginine nitrate crystals. In 1897, Schulze and Ernst Winterstein (1865–1949) determined the structure of arginine. Schulze and Winterstein synthesized arginine from ornithine and cyanamide in 1899, but some doubts about arginine's structure... d105e93247

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