

# Stability Of Common Biochemical Analytes In Serum Gel

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## Stability Of Common Biochemical Analytes

Nine samples were stored at 15, 25 or 35°C for 4, 8 or 24 h, respectively, before centrifugation. Thirty-five biochemical analytes were measured on each sample. Results. Most analytes remained stable in all storage conditions including sodium, total protein, albumin, bilirubin, alanine transferase, aspartate aminotransferase, alkaline phosphatase, gamma glutamyl transferase, creatinine kinase, lipase, cholesterol, triglycerides, transferrin, urate, C-reactive protein, vitamin B12, ...

## Stability of common biochemical analytes in serum gel ...

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The stability maximized for the analytes including glucose, total bilirubin, urea nitrogen (BUN), uric acid stored at 4 degrees C in gel tubes. Aspartate aminotransferase (AST) activity increased significantly ( $P = 0.002$ ) up to 48-h, however bias was not significant clinically.

## **Stability studies of common biochemical analytes in serum ...**

Clin Biochem 2012;45:464-9). Results: The majority of analytes were stable with delayed separation up to 12 h, except for potassium, C-peptide, osteocalcin, parathyroid hormone (PTH), bicarbonate and LDH. After prompt centrifugation and storage at 4°C, stability was greatly increased up to 48 h for most analytes.

## **Stability of routine biochemical analytes in whole blood**

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Results: On day three, most analytes remained stable including albumin, protein, creatinine, cholesterol, triglycerides, gamma-glutamyl transferase (GGT), alkaline phosphatase (ALP), alanine aminotransferase (ALT), creatine kinase (CK), lactate dehydrogenase (LD) regardless of tube types. Glucose concentration decreased markedly ( $P = 0.001$ ) beginning from the first hours of storage in plain serum.

## **Stability studies of common biochemical analytes in serum ...**

The effect that delays may have on the accuracy of results of blood biochemical analyses is not well established. Hypothesis: Delays in processing of blood of up to 72h results in alterations in measured levels of common biochemical analytes that are of potential clinical relevance. Separation of serum prior to storage is protective against the ...

## **Stability of common biochemistry analytes in equine blood ...**

HDL cholesterol, uric acid and BUN levels were most stable in serum stored at 4°C in collection tubes with a gel barrier. While levels of uric acid and BUN were stable in serum refrigerated for 30 h in tubes containing gel, HDL cholesterol levels were stable for up to 48 h at 4°C in tubes containing gel.

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## **Stability studies of common biochemical analytes in serum ...**

Stability of common biochemistry analytes in equine blood and serum stored at room temperature. 135-135. Abstract from 47th British Equine Veterinary Association Congress, Liverpool, United Kingdom.

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The stability maximized for the analytes including glucose, total bilirubin, urea nitrogen (BUN), uric acid stored at 4 °C in gel tubes. Aspartate aminotransferase (AST) activity increased significantly ( $P = 0.002$ ) up to 48-h, however bias was not significant clinically.

## **Stability studies of common biochemical analytes in serum ...**

Stability of common biochemistry analytes in equine blood stored at room temperature. Rendle DI(1), Heller J, Hughes KJ, Innocent GT, Durham AE. Author information: (1)The Liphook Equine Hospital, Forest Mere, Liphook, Hampshire GU30 7JG, UK.

## **Stability of common biochemistry analytes in equine blood ...**

Results Most analytes remained stable in all storage conditions including sodium, total protein, albumin, bilirubin, alanine transferase, aspartate aminotransferase, alkaline phosphatase, gamma glutamyl transferase, creatinine kinase, lipase, cholesterol, triglycerides, transferrin, urate, C-reactive protein, vitamin B12, thyroid-stimulating hormone, free thyroxine, free triiodothyronine, follicle-stimulating hormone, oestradiol, prostate-specific antigen, cortisol and vitamin D. Potassium ...

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## **[PDF] Stability of common biochemical analytes in serum**

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Tanner et al. Stability of common biochemical analytes in serum gel tubes 377. A sample was considered to be significantly affected by the storage condition if the difference compared with the.

## **(PDF) Stability of common biochemical analytes in serum**

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(5) At -30 °C, test results of all analytes were generally very stable except for ALT and CK, which showed noticeable reductions in activity after 14 days. Conclusions This is the first study to assess the stability of serum analytes at six graded temperatures simultaneously. Each analyte has a unique stability pattern for a range of temperatures.

## **Elucidation of stability profiles of common chemistry ...**

Many reports address the stability of biochemical analytes in serum. However, studies covering a wide range of storage temperatures are unavailable. Using equipment enabling precise temperature control, we investigated the effect of six different storage temperatures on serum analytes.

## **Elucidation of stability profiles of common chemistry ...**

The majority of analytes were stable with delayed separation up to 12 h, except for potassium, C-peptide, osteocalcin, parathyroid hormone (PTH), bicarbonate and LDH. After prompt centrifugation and storage at 4°C, stability was greatly increased up to 48 h for most analytes.

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## **(PDF) Stability of routine biochemical analytes in whole**

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As a result, common clinical chemistry analytes, with considering

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the variability of unstable analytes, showed adequate stability after 3 months of storage in sera at -20 °C, or up to ten times of freeze-thaw cycle. All the same, such analysis can only be performed for exceptional cases, and results must be interpreted with great attention.

## **The effect of storage time and freeze-thaw cycles on the**

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**OBJECTIVE:** A common problem in clinical laboratories is maintaining the stability of analytes during pre-analytical processes. The aim of this study was to systematically summarize the results of a set of studies about the biochemical analytes stability.

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