

## Creatinine Jaffe Colorimetric – kinetic

**IVD** For in-vitro diagnostic and professional use only

$\lambda_{max}$  492 nm  
Score at 2-8°C

### INTENDED USE

For the quantitative determination of creatinine in human serum or heparinized plasma.

### INTRODUCTION

Creatinine is the result of the degradation of the creatine, component of muscles, it can be transformed into ATP, that is a source of high energy for the cells. The creatinine production depends on the modification of the muscular mass, and it varies little and the levels usually are very stable. It is excreted by the kidneys. With progressive renal insufficiency there is retention in blood of urea, creatinine and uric acid. Elevate creatinine level may indicate renal insufficiency.

Clinical diagnosis should not be made on a single test result; it should integrate clinical and other laboratory data.

### PRINCIPLE OF THE METHOD

The assay is based on the reaction of creatinine with sodium picrate as described by Jaffe.

Creatinine reacts with alkaline picrate forming a red complex. The time interval chosen for measurements avoids interferences from other serum constituents. The intensity of the color formed is proportional to the creatinine concentration in the sample.

### REAGENTS

R 1		
Formic Reagent	Formic acid	27.5 mmol/L
R 2		
Alkaline Reagent	Sodium hydroxide	0.29 mol/L

If the results obtained were greater than linearity limit, dilute the sample 1/2 with NaCl 9 g/L and multiply the result by 2.

### Precision

Mean(mg/dL)	Intra-assay (n=20)		Inter-assay (n=20)	
	CV	SD	CV	SD
0.5	2.78	0.07	3.97	0.20
1.0	2.78	0.07	3.97	0.20

### Sensitivity

1 mg/dL,  $\pm$  0.0407  $\Delta$ A /min.

### Accuracy

Results obtained using ATLAS reagents (y) did not show systematic differences when compared with other commercial reagents (x). The results obtained using 30 samples were the following:  
Correlation coefficient (r<sup>2</sup>) 0.99584.

Regression equation: y = 0.993x + 0.075

The results of the performance characteristics depend on the analyzer used.

### INTERFERENCES

hemoglobin (3 g/L), bilirubin (20 mg/dL), interfer. ions  $\pm$  4 g/L do not interfere.

A list of drugs and other interfering substances with creatinine determination has been reported by Young.

### NOTES

- Calibration with the aqueous Standard may cause a systematic error in automatic procedures. In these cases, it is recommended to use a serum Calibrator.
- Use clean disposable pipette tips for its dispensation.
- Creatinine standard/proceed carefully with this product because due to its nature it can get contaminated easily.

### REFERENCES

- Murray R.J. Creatinine. Kaplan A et al. Clin Chem. The C.V. Mosby Co. St Louis, Toronto, Philadelphia 1988. 1261-1266 and 638.

CREATININE STD	Creatinine aqueous primary standard 1 mg/dL
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### EQUIPMENTS NEEDED BUT NOT PROVIDED

- Spectrophotometer or colorimeter measuring at 492 nm (490-500)
- Matched cuvettes 1.0 cm light path.
- General laboratory equipment.

### PRECAUTIONS

- R1/Formic acid): Corrosive (C)R35-Causes severe burns.
- R2/NaOH): Irritant (Xi); R26/R33: Irritating to eyes and skin.S28: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.S37/39: Wear suitable gloves and eye/face protection.S45: In case of accident or if you feel unwell, seek medical advice immediately.

### PREPARATION

- Working reagent (WR): Mix equal volumes of R2 Formic Reagent and R2 Alkaline reagent. The working reagent is stable for 15 days at (2-8°C) or 7 days at room temperature (15-25 °C).

### STORAGE AND STABILITY

- All the components of the kit are stable until the expiration date on the label when stored tightly closed at 2-8°C, protected from light and contamination presented during their use.
- Do not use reagents over the expiration date.
- Signs of reagent deterioration:
  - Presence of particles and turbidity.
  - Blank absorbance (A) at 492 nm  $\geq$  0.05.

### SAMPLES

- Serum or heparinized plasma  
Creatinine stability: 24 hours at 2-8°C.
- Urine: Dilute sample 1/50 with distilled water. Mix. Multiply results by 50 (dilution factor).  
Creatinine stability: 7 days at 2-8°C.

### PROCEDURE

- Assay conditions:  
Wavelength: .....492 nm (490-510)
- Blank
- Young DS. Effects of disease on Clinical Lab. Tests. 4th ed AAC 2001.
- Burns A et al. Tietz Textbook of Clinical Chemistry. 5th ed AAC 1999.
- Tietz N W et al. Clinical Guide to Laboratory Tests. 5th ed AAC 1995.

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### IPPCASAS2 Rev A (02.09.2023)

	Catalogue number		Temperature limit
	In vitro diagnostic medical device		Caution
	Contains sufficient for use tests and relative size		Consult instructions for use (CIU)
	Batch code		Manufacturer
	Fragile, handle with care		Use-by date
	Manufacturer fax number		Do not use if package is damaged
	Manufacturer telephone number		Date of Manufacture
	Keep away from sunlight		Keep dry

Cuvette: 1 cm light path  
Temperature: .....20°C / 15-25°C

2. Adjust the instrument to zero with distilled water.

3. Pipette into a cuvette:

	Blank	Standard	Sample
WR (μL)	1.0	1.0	1.0
Standard (μL)	—	100	—
Sample (μL)	—	—	100

4. Mix and start stopwatch.

5. Read the absorbance (A1) after 90 seconds and after 90 seconds (A2) of the sample addition.

6. Calculate:  $\Delta A = A2 - A1$ .

### CALCULATIONS

$\frac{\Delta A \text{ Sample} - \Delta A \text{ Blank}}{\Delta A \text{ Standard} - \Delta A \text{ Blank}} \times 2 \text{ (Standard conc.)} = \text{mg/dL of Creatinine in sample}$

Conversion factor: mg/dL  $\times$  0.4  $\mu$ mol/L

### QUALITY CONTROL

- Control sera are recommended to monitor the performance of assay procedures.
- If control values are found outside the defined range, check the instrument, reagents and calibrator for problems.
- Each laboratory should establish its own Quality Control scheme and corrective actions if controls do not meet the acceptable tolerance.

### REFERENCE VALUES

	Male	Female
Serum /plasma	0.7 – 1.4 mg/dL $\pm$ 0.2 – 0.7 $\mu$ mol/L	0.6 – 1.3 mg/dL $\pm$ 0.2 – 0.7 $\mu$ mol/L
Urine 15-25mg/Kg/24h	10 – 20mg/Kg/24h	8 – 12 mg/Kg/24h

These values are for orientation purposes; each laboratory should establish its own reference range.

### PERFORMANCE CHARACTERISTICS

#### Measuring range:

From detection limit of 0.05 mg/dL to linearity limit of 30 mg/dL.

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**United States. Patent Office**



## **Jaffe Tacks User Guide:**

**Topics in Cryptology - CT-RSA 2012** Orr Dunkelman,2012-01-30 This book constitutes the refereed proceedings of the Cryptographers Track at the RSA Conference 2012 CT RSA 2012 held in San Francisco CA USA in February March 2012 The 26 revised full papers presented were carefully reviewed and selected from 113 submissions The papers are organized in topical sections on side channel attacks digital signatures public key encryption cryptographic protocols secure implementation methods symmetric key primitives and secure multiparty computation *Pediatric Neurogastroenterology*

Christophe Faure,Carlo Di Lorenzo,Nikhil Thapar,2012-12-21 Neurogastroenterology is devoted to study the interface of all aspects of the digestive system with the different branches of the nervous system Over the past 15 years advances in this field has greatly improved our understanding in primary functional and motility disorders in children Neurogastroenterology has also begun to revolutionize our vision of organic diseases like inflammatory bowel disease obesity diabetes as well as microbial host interactions Major advances have also been achieved during these years in the knowledge of mechanisms of development of the enteric nervous system at the molecular level allowing a better understanding of diseases related to developmental anomalies and opening perspectives to new treatments with stem cells *Pediatric Neurogastroenterology Gastrointestinal Motility and Functional Disorders in Children* is dedicated to report the most accurate and recent knowledge in the field Written by the world renown experts the book covers the field by providing a comprehensive and up to date review and practical guide to pediatric gastrointestinal motility and functional disorders for pediatricians pediatric gastroenterologists adult gastroenterologists and all professionals involved in the treatment of children with such disorders

**Halliwel's Film Guide** Leslie Halliwel,1986 **Halliwel's Film Guide** ,1989 **Scientific American** ,1929 Monthly magazine devoted to topics of general scientific interest Children's Books in Print ,1993 **Imaging of Acute Appendicitis in Adults and Children** Caroline KEYZER,Pierre Alain Gevenois,2011-09-20 This book is a comprehensive account of imaging of acute appendicitis and other appendiceal diseases Background information is first provided on clinical presentation perforation and negative appendectomy rates and treatment options The role of each imaging modality radiography ultrasound CT and MRI is then considered separately in adults and children with suspected acute appendicitis Many high quality illustrations are included and detailed information is provided on appropriate protocols and radiation saving Further chapters addresses the spontaneously resolving and chronic appendicitis as well as other appendiceal lesions and review the findings of evidence based medicine and cost effectiveness analyses Emergency physicians pediatricians surgeons and radiologists will all find this book to be an excellent source of information and guidance **Index of Patents**

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*Bowker's News Media Directory* Bowker Staff,2003 **Ducks Unlimited** ,2002 **Concrete Engineering** ,1907

**Physical Health and Well-Being in Mental Health Nursing: Clinical Skills for Practice** Michael Nash, 2014-06-16

This popular and groundbreaking book was the first of its kind to focus on providing mental health nurses with the core knowledge of the physical health issues that they need for their work. Considering the risk factors and assessment priorities amongst different mental health client groups, the book provides clinical insights into how best to work with service users to ensure their health is assessed and improved. In this fully updated second edition, the book addresses the latest research and policy as well as expanding coverage of Assessment principles and skills, Adverse reactions, side effects, and patient education. Working with older and younger patients, Multi-professional working. Each chapter includes case studies, examples, diagrams, and exercises for self-testing and reflection, which will help readers develop their own skills and practice. *Physical Health and Well-Being in Mental Health Nursing* is a must-have text for students and practitioners working in mental health nursing. It is also useful reading for practice nurses, district nurses, midwives, and all allied health practitioners. People living with serious mental health problems often have significant physical health problems that are estimated to shorten their life expectancy by up to 15 years. This is unacceptable and avoidable, and mental health nurses have a crucial role to play in addressing this situation. The second edition of this excellent text is timely. Underpinned by a sound evidence base and peppered with practical examples throughout, this book contains essential knowledge and skills that will enable mental health nurses to help service users transform their health and wellbeing and live longer, healthier, and more satisfying lives. Patrick Callaghan, Professor of Mental Nursing, Head of School of Health Sciences, University of Nottingham. This new edition of an established text will be welcomed by students, academics, and service users. The physical health of those with enduring mental illness is an important but neglected aspect of health care, responsible for considerable preventable morbidity. This popular, accessible book raises the profile of this Cinderella subject in the nursing curriculum. Healthcare outcomes will be improved if practitioners follow Mike's advice throughout the text, most particularly: One small step we can take which will make a huge difference to the physical health of mental health service users is to regularly monitor and screen for adverse drug reactions. p. 184. Sue Jordan, Reader, College of Human and Health Sciences, Swansea University. [Academic Computing](#), 1989. *Whitaker's Cumulative Book List*, 1968. **New York Times Saturday Book Review Supplement**, 1961-12. *Textile Technology Digest*, 1982.

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