CORALYZER
System Pack

Creatinine Kit

(Mod. Jaffes Kinetic Method)

For the determination of Creatinine in serum.
(For Invitro Diagnostic Use Only)

Summary
Creatinine is the catabolic product of creatinine phosphate which is used by the skeletal muscle. The daily production depends on muscular mass and it is excreted out of the body entirely by the kidneys. Elevated levels are found in renal dysfunction, reduced renal blood flow (shock, dehydration, congestive heart failure) diabetes acromegaly. Decreased levels are found in muscular dystrophy.

Principle
Picric acid in an alkaline medium reacts with creatinine to form a orange coloured complex with the alkaline picrate. Intensity of the colour formed during the fixed time is directly proportional to the amount of creatinine present in the sample.

Creatinine + Alkaline Picrate ⟶ Orange Coloured Complex

Reference values

Serum	Males	:	0.6 - 1.2 mg%
	Females	:	0.5 - 1.1 mg%

It is recommended that each laboratory establish its own normal range representing its patient population.

Contents

Coralyzer 100 System Packs	**60 ml**	**240 ml**
L1 : Buffer Reagent	30 ml	4 x 30 ml
L2 : Picric Acid Reagent	30 ml	4 x 30 ml

Coralyzer 200 System Packs	**60 ml**	**240 ml**
L1 : Buffer Reagent	30 ml	3 x 40 ml
L2 : Picric Acid Reagent	30 ml	3 x 40 ml

Storage / stability
Contents are stable at R.T. till the expiry mentioned on the labels.

Reagent preparation
Reagents are ready to use. Do not pipette with mouth.

Sample material
Serum. Creatinine is reported to be stable in serum for 1 day at 2 - 8^{0}C

Calibration
Calibrator is recommended for calibration of this assay.

Linearity
This procedure is linear upto 20 mg/dl of creatinine.

Note
The determination is not specific and may be affected by the presence of large quantities of reducing substances.

References
Bowers, L.D. (1980) Clin. Chem. 26 : 551
Bowers, L.D. et al. (1980) Clin. Chem. 26 : 655

Programming on	CORALYZER 100/200
Item	CREATININE
Full Name	CREATININE
Test Method	Two Point
Base Information	
Unit	mg/dl
Filter	510 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	1
Sample	
Sample Volume	30
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	150
Rgt. 2 Volume	150
Linearity	20
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	17
Test Point End	21
Standard	
Number of standard	1
Factor	1
Correct Factor	1
Standard Cup	User Defined
Conc.	See Calibrator

Manufactured by :
Coral Clinical Systems
A Division of Tulip Diagnostics (P) Ltd.
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