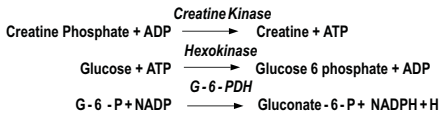
CORALYZER
System Pack

CK (NAC act.) Kit

(Mod. IFCC Method)
For the determination of CK activity in serum.
(For Invitro Diagnostic Use Only)

Summary
CK is mainly found in all muscle and brain tissue. It plays an important role in the energy storing mechanism of the tissues. Increased levels are found in myocardial infarction, cerebrovascular diseases, muscular dystrophy, pulmonary infarction &, electrical shocks. Increased levels can also be caused by intra muscular injections, strenuous exercise and recent surgery. Early pregnancy may produce decreased levels.

Principle
Creatine Kinase catalyse the reaction between Creatinine Phosphate and ADP to form creatine and ATP. The ATP formed along with Glucose is catalysed by Hexokinase to form Glucose 6 phosphate. The Glucose 6 phosphate reduces NADP to NADPH in the presence of Glucose 6 phosphate dehydrogenase. The rate of reduction of NADP to NADPH is measured as an increase in absorbance which is proportional to the CK activity in the sample.



Normal reference values

Serum	Male	:	24 - 195 U/L at 37°C
	Female	:	24 - 170 U/L at 37°C

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

Contents

Coralyzer 100 System Packs	**120ml**	**200ml**
L1 : Enzyme Reagent	4 x 24 ml	4 x 40 ml
L2 : Starter Reagent	2 x 12 ml	4 x 10 ml

Coralyzer 100 System Packs	**40 ml**
L1 : Enzyme Reagent	32ml
L2 : Starter Reagent	8ml

Coralyzer 200 System Packs	**40 ml**	**120ml**	**200ml**
L1 : Enzyme Reagent	32ml	4 x 24ml	4 x 40ml
L2 : Starter Reagent	8ml	2 x 12ml	4 x 10ml

Storage / stability
Contents are stable at 2 - 8°C till the expiry mentioned on the labels.

Reagent preparation
Reagents are ready to use.

Sample material
Serum. Free from hemolysis. CK is reported to be stable in serum for 3 days at 2 - 8°C.

Calibration
Calibrator is recommended for calibration of this assay.

Linearity
This procedure is linear upto 2000 U/L at 37°C.

Note
Samples having a high activity show a very high initial absorbance as most of the NADP is converted prior to the start of measurement. If this is suspected then dilute the sample and repeat the assay.

Programming on	**CORALYZER 100/200**
Item	CK
Full Name	CK
Test Method	Kinetic
Base Information	
Unit	U/L
Filter	340 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	2
Sample	
Sample Volume	6
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	240
Rgt. 2 Volume	60
Linearity	2000
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	19
Test Point End	29
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.
Gitanjali, Dr. Antonio Do Rego Bagh,
Bambolim Complex P.O. GOA - 403 202, INDIA

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