Certification of analysis

Product Name： **Mouse Cocaine And Amphetamine Regulated Transcript (CART) ELISA Kit**

Cat. No.   OKDD01795   **Lot No**：   **KF0864**

Introduction

| Item	Standard		Test Result
Description	The kit is a sandwich enzyme immunoassay technique for the in vitro quantitative measurement of CART in mouse tissue homogenates, cell lysates or other biological fluids.		Conform
Identification	Colorimetric		Positive
Composition	Pre-coated, ready to use 96-well strip plate	1	Conform
	Standard (freeze dried)	2	
	Standard Diluent	1 × 20ml	
	Biotinylated CART Detector Antibody	1 × 12ml	
	Avidin-HRP Conjugate	1 × 12ml	
	TMB Substrate	1 × 9ml	
	Stop Solution	1 ×6ml	
	Wash Buffer(30 x concentrate)	1 ×20ml	
	Plate sealer for 96 wells	2	
	Instruction manual	1	
Assay Range	0.156-10ng/mL		Conform

Sensitivity

The minimum detectable dose of mouse CART is typically less than 0.055ng/mL.

The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.

Standard curve

The standard curve is provided for demonstrated only. The client should perform the standard test in each independent experiment.

ng/mL	Standard		Average	Corrected
0	0.112	0.114	0.113	---
0.156	0.234	0.228	0.231	0.118
0.312	0.331	0.34	0.3355	0.2225
0.625	0.498	0.476	0.487	0.374
1.25	0.756	0.749	0.7525	0.6395
2.5	0.987	0.996	0.9915	0.8785
5	1.632	1.624	1.628	1.515
10	2.312	2.364	2.338	2.225
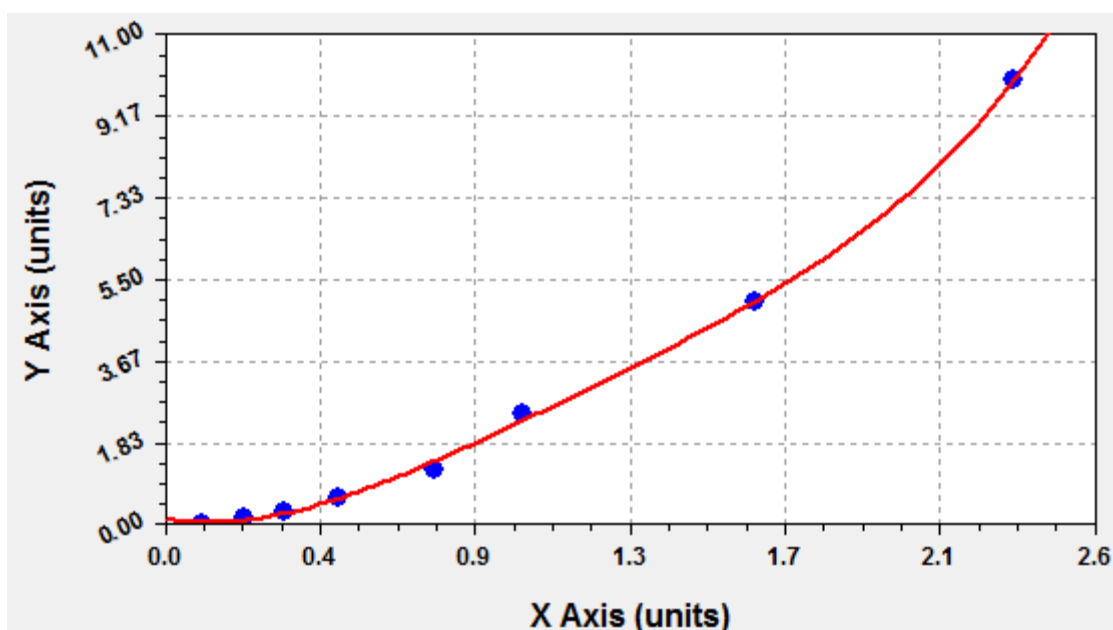
Precision

Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level mouse CART were tested 20 times on one plate, respectively.

Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level mouse CART were tested on 3 different plates, 8 replicates in each plate.

CV(%) = SD/meanX100

	Intra-assay Precision			Inter-assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	8	8	8
Mean (ng/mL)	2.16	5.06	8.68	0.98	4.60	9.24
SD	0.13	0.39	0.67	0.07	0.27	0.63
CV (%)	5.83	7.62	7.75	7.50	5.90	6.79