

TECHNICAL DATA SHEET**Catalog # MSA41****Cytochrome c Protein Quantity Microplate Assay Kit**

Rev.4

LOT #:

APPLICATIONS: Analysis of cytochrome c quantity

SPECIES CROSS-REACTIVITY: Human, Bovine, Mouse, and Rat

KIT COMPONENTS:	Item	MSA41
	20X Buffer (Tube 1)	15 mL
	10X Blocking Buffer (Tube 2)	15 mL
	20X Wash Buffer (Tube 3)	15 mL
	Development Solution	20 mL
	Detergent	1 mL
	20X Detector antibody (Tube A)	1 mL
	20X HRP label (Tube B)	1 mL
	96-well pre-coated microplate (12 strips)	1

STORAGE CONDITIONS:

- Store detergent at room temperature, do not chill.
- Store all other components and the covered microplate at 4°C.
- The kit is stable for 6 months upon receipt.

COUNTRY OF ORIGIN: USA

BACKGROUND:

The permeabilization of the mitochondrial outer membrane and the consequent release of cytochrome c and other apoptogenic proteins from the mitochondrial intermembrane space into cytoplasm is considered hallmark of many apoptotic pathways leading to cell death. Therefore, the ability to assay these proteins in mitochondrial and cytoplasmic fractions is of prime interest to many researchers.

The Rapid Microplate Assay Kit for Cytochrome c Quantity (MSA41) is used to determine the amount of the cytochrome c in a sample. Cytochrome c is immunocaptured within the wells and the amount is determined by adding a cytochrome c specific antibody conjugated with horseradish peroxidase. This peroxidase changes the substrate from colorless to blue at 600 nm. This reaction takes place in a time dependent manner proportional to the amount of protein captured in the wells. The rate of development of blue color can be followed at 600 nm or the reaction can be stopped at a user defined time by the addition of 100 µL of 1.5 N HCl to each well (not supplied) and read at 450 nm.

Note: This product is for research purposes only. It is not to be used in humans or for diagnostic purposes.

WARRANTY – MitoSciences Inc warrants that products will perform as indicated in the published Product Information Sheet and Product Technical Specifications for 2 month from date of purchase when stored according to specifications and when used consistent with recommended protocols. If you experience results which materially differ from those described, send evidence of the non-performing product for replacement of the original product purchased or a credit toward any other of the company's products or services.