



KPG Ferric Reducing Ability of Plasma (FRAP) Assay Kit (For research use only)

Catalog Nos. KPG-FRAP Lot Nos. KPG-FRAP1

Component of KPG NO Assay Kit:

- Solution A (CN. KPG-Sa), 1 Vial 3 mL
- Solution B (CN. KPG-Sb), 1 Vial 3 mL
- Solution C (CN. KPG-Sc), 1 Vial 3 mL
- Standard (CN. KPG-StdFRAP), 1 Vial 2 mL

Other materials needed: Samplers, Centrifuge, ELISA plate and ELISA reader covering 593 nm.

Preparation of the solution: Solution A, B and C needs to be mixed immediately before experiments in 10/1/1 ratio to make working solution. For example, if you need to test 4 samples prepare 300 μ L working solution, so mix 250 μ L solution A with 25 μ L solution B and 25 μ L solution C. The mix is stable for 30 minutes only and needs to be prepared immediately before experiments.

Preparation of standards

Add 100 mL deionized distilled water (DDW) to the standard bottle and mix well to make 10 mM solution. Add 2 mL from the standard with 10 mM Fe²⁺ to 8 mL DDW to make a 2 mM concentration and then make serial dilutions using the following table to make standard 1 to 6:

Std	Concentrations (Fe ²⁺)	H ₂ O	volume
1	1 mM (1000 μM)	500 μL	500 μL
2	0.7 mM (700 μM)	650 μL	350 μL
3	0.5 mM (500 μM)	750 μL	250 μL
4	0.3 mM (300 μM)	850 μL	150 μL
5	0.2 mM (200 μM)	900 μL	100 μL
6	0.1 mM (100 μM)	950 μL	50 μL

Procedure:

- 1. Before starting the procedure keep the kit components in room temperature for 20 minutes.
- 2. Add 5 μ L sample, standards and DDW (as blank) to the clean ELISA plates, then add 70 μ L working solution and mixed for 30 seconds.
- 3. Incubate the plate at 37 °C for 5 minutes and evaluate its OD at 593 nm.

Safety directions: The solutions are tissue hazard materials, hence, in the cases of contact with skin, eyes and ETC, wash with water and refer to hospital for additional medications.







