

Protocol to Pre-absorb Anticoagulant onto the Mitra™ (RUO) Microsampling Device

The patent pending Mitra microsampler is designed to collect a fixed volume of blood regardless of volumetric blood hematocrit level. This technical brief presents a very simple protocol to pre-absorb K2-EDTA onto the sampling tip prior to blood collection that will not affect the volumetric properties of the Mitra micro sampler.

General Protocol

Step 1 Choose a solvent for dissolving the K2-EDTA. Water is typically the solvent of choice, but solubility should be checked

Examples

- Pure water for 1 % sodium K2-EDTA by weight
- Water/methanol (50:50) for 0.15 % K2-EDTA by weight

Step 2 Prepare a stock solution of K2-EDTA at the target concentration of the blood

Example

- 5.4 mg for a 3 mL tube¹ (match the expected concentration that the K2-EDTA tubes generate)

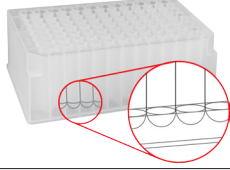
Step 3 Dip the Mitra sampling tip into the solution for 6 seconds

Step 4 Dry the tips in open air for 2 hours

Helpful Tips

- Look out for non-anhydrous bottles of K2-EDTA
- Use the molecular weight from the bottle, do not calculate it
- There may be a few waters of crystallization

Ordering Information

Product	Part No.	Description	Unit
	9R-K002-CA	Mitra (RUO) 10 µL Microsampling Device 96-Well Plate Assembly	1 ea
	9R-K002-CD	Mitra (RUO) 10 µL Microsampling Device 96-Well Plate Assembly	12/pk
	9R-K002-BF	Mitra (RUO) 10 µL Microsampling Device 4-Pack Clamshell	60/pk
	AK-9268-A	Mitra Drying Rack 96-Well Plate	1 ea
	AK-9269-A	Mitra SBS Deck Adapter 96-Well Plate	1 ea
	AK-9270-A	Mitra Sampling Tool	1 ea
	AH0-8636	96-Well Collection Plate 2 mL round well with round bottom	50/pk

¹ Giuseppe Lippi, Gian Luca Salvagno, Martina Montagnana (2007) Evaluation of Different Mixing Procedures for K2 EDTA Primary Samples on Hematological Testing. *Science*, 38 (12), 723-725

Trademarks

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Disclaimer

Mitra is patent pending. The Mitra (RUO) Microsampling Device is for research-use-only (RUO) and should serve no medical purpose. It should not be used with the intent or in the course of clinical diagnosis, treatment, or care of humans or animals.

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