

For research use only. Not for use in diagnostic procedures



Product description

The NaCl/CaCl₂ diluent is a mix of calcium chloride (3 mM) and physiological saline (0.9%).

For use as a sample diluent in platelet aggregation studies with the Multiplate[®] platelet function analyzer under reduced calcium concentrations associated with the use of citrated blood samples.

Principle

Citrate is commonly used as an anticoagulant in blood collection systems for coagulation testing due to its ability to deplete calcium and inhibit the coagulation of the specimen. Reduced calcium levels are a potential concern in platelet testing as they may inhibit platelet function. Therefore it is recommended to partially re-calcify citrated samples with this diluent solution for testing in the Multiplate[®]. The 3 mM CaCl₂ diluent solution enhances the calcium levels of the sample while maintaining the anticoagulant effect of the citrate.

The NaCl/CaCl₂ diluent is a mix of calcium chloride (3mM) and physiological saline (0.9%). The solution is recommended when running the ADPtest, ADPtest HS, COLtest or TRAPtest in citrated blood samples on the Multiplate[®] analyzer.

Materials provided

REF 08115974 001: 10 each containing 5 mL of NaCl/CaCl₂ solution

Instrumentation

The NaCl/CaCl₂ diluent will perform as described when used with the Multiplate[®] aggregometer. Follow the manufacturer's instructions.

Precautions and warnings

Ensure proper storage conditions. Use the contents of opened tubes within one week of opening. Discard the tube if there is a suspicion of contamination with other substances.

Reagent preparation

The NaCl/CaCl₂ diluent is packaged ready-for-use. Prior to use in a test, the diluent must be pre-warmed to 37°C by placing the tube in the pre-heating position of the Multiplate[®] instrument for a minimum of 10 minutes.

Storage and stability

Store tubes at 2-8°C.

The product is stable until the expiry date on the tube label when stored at 2-8°C. Use the content of opened tubes within one week of opening.

Sample collection

Blood collection should be performed with caution to avoid prolonged venous stasis and using a large-bore needle during draw. Also avoid foam formation in the blood collection tube. Gently invert the collection tube 4 to 5 times to ensure complete mixing of the content. Do not freeze or refrigerate samples. Do not preheat the blood before analysis.

Collect samples into sterile evacuated tubes with non-wettable lining containing 1/10 volume of 3.2 % buffered sodium citrate. Always ensure citrated blood collection tubes are filled to the indicated fill volume, in order to avoid excessive citrate levels.

Test procedure

Refer to the appropriate Operator's Manual for analyzer specific assay instructions.

Manufacturer

Roche Diagnostics GmbH,
Sandhofer Strasse 116,
D-68305 Mannheim, Germany
www.roche.com

Distributor

DiaPharma Group, Inc.
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