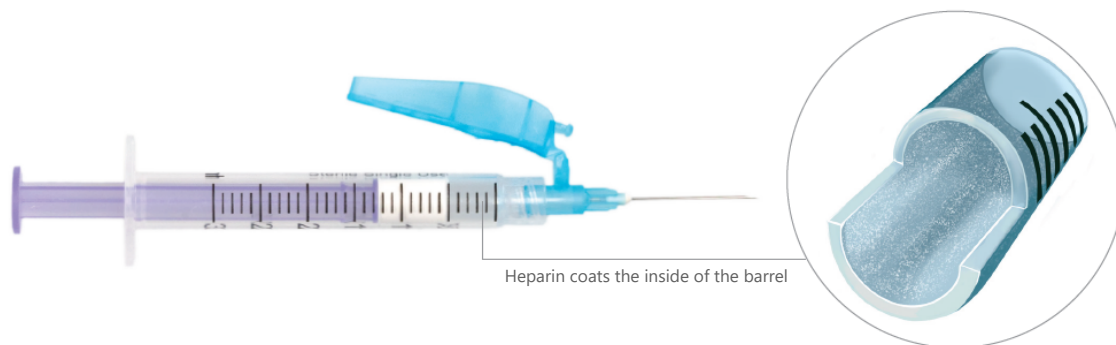


# TruTest® Arterial Blood Gas Heparin

Heparin is an anticoagulant used to keep the blood sample viable (clot free) for analysis.

TruTest® offers a powdered formulation designed to reduce the effect on calcium readings and eliminate the risk of dilution on a sample.



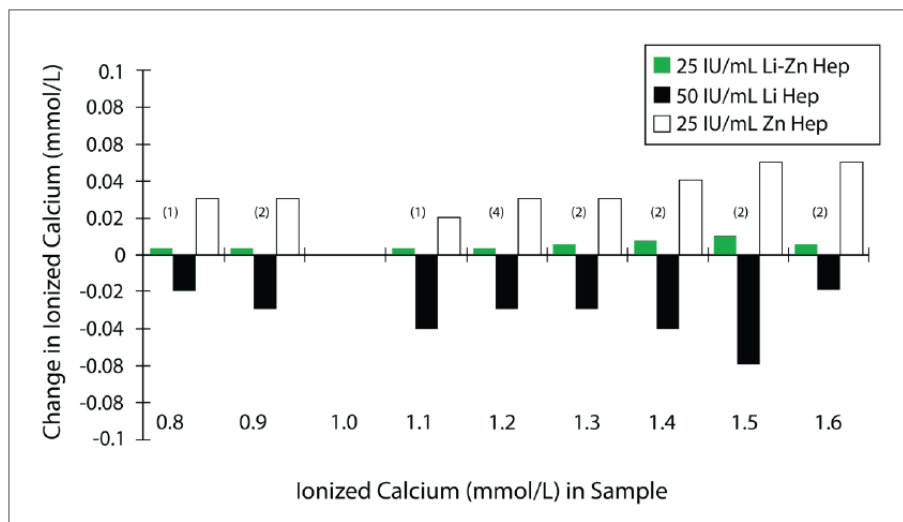
## Types of Dry Heparin:

POWDERED (TruTest®)	CRYSTALLINE	LYOPHILIZED (FREEZE DRIED) PELLET
Crystalline, freeze-dried powder	Large sugar-like crystals	Freeze-dried pellet
Easy to mix	Not easy to mix	Not easy to mix
No dilution risk	No dilution risk	No dilution risk
Not susceptible to rehydration	Not susceptible to rehydration	Susceptible to rehydration

## Blended Li:Zn Formulation

Conventional lithium heparin lowers calcium readings. Balanced blended lithium zinc heparin truly balances the electrolytes for more accurate calcium measurement:

- Zinc (Zn) binds with lithium (Li)
- Stops Lithium from binding with calcium in the blood ( $Ca^{++}$ ).
- When blended at 1:1 ratio, regardless of the electrolyte reading, the result is balanced.
- Allows for one needle to draw for any analysis.



Changes in ionized calcium by various types of heparin, relative to results in whole blood containing no anticoagulant. Numbers in parentheses indicate the number of volunteers studied in each ionized calcium range.

Source: Toffaletti J, Ernst P, Hunt P, Abramns b. Dry electrolyte-balanced heparinized syringes evaluated for determining ionized calcium and other electrolytes in whole blood. Clin Chem. 1991 Oct;37 (10 Pt1):1730-3. PMID:1914173.



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