

## | Serum Blood Collection Tube

Aron Zist\* serum blood collection tube aims providing high-quality serum specimen for medical laboratories. It includes 3 kinds of tubes: No additive Tube with red cap, Pro-coagulation Tube with red cap and Gel & Clot Activator Tube with golden cap.



**No Additive Tube** is used in blood collection and storage for biochemistry, immunology and serology tests in medical inspection. It can provide enough and nonpolluted serum specimen for clinical test, while keeping the serum invariable in the long inspection period. It is applicable for all current mainstream biochemical analyzers.

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**No Additive Tube**





**Clot activator Tube** is used in blood collection and storage for biochemistry and immunology tests. Its main merit is that it's suitable for a wide range of operation, fast in coagulation, and free from both secondary separation of fibrin protein and the cracking of blood corpuscle. Hence the serum can meet the requirements of fast clinic and emergency medicine.

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**Clot activator Tube**

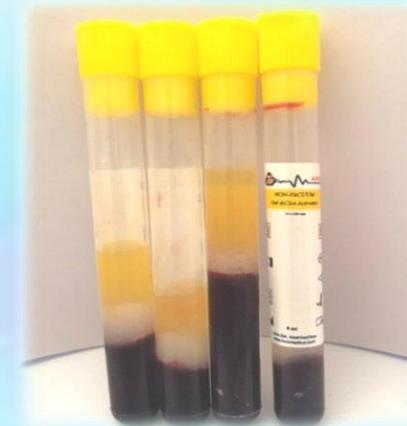




**Gel & Clot Activator Tube** is used for clinical biochemistry and immunology. Inside the tube there is a barrier gel present at the bottom, which is a pure substance, very stable in physical and chemical features. The barrier gel with high temperature-resisting property will not change inside at all. After centrifugation, the barrier can effectively separate the serum from fibrin and cells, while preventing substance exchange between blood cell and serum. As a result, it can keep biochemical characters and chemical components of serum unchanged for a long time. Serum can also be aspirated directly from the collection tube, no need for transfer to another container.

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### **Gel & Clot Activator Tube**



## | Plasma Blood Collection Tube

Aron Zist Blood Sampling Tube\* plasma blood collection tube aims at providing high-quality plasma specimen for medical laboratories. It includes 5 kinds of tubes: Glucose Tube with gray cap, PT Tube with light blue cap, Heparin Tube with green cap, Gel & Heparin Tube with green door and ESR/PT Tube with pink cap.



**Glucose Tube** is used in blood collection and anticoagulation for the analyses such as blood sugar, sugar tolerance, anti-alkali haemoglobin and sugar water. It is available with different additives, sodium fluoride/potassium oxalate and sodium fluoride/EDTA. Owing to the first use of special stabilizer and surface treatment inside the tube, **Aron Zist Teb Pazh** glucose tube successfully solve the unavoidable hemolysis and prevents the occurrence of insoluble and anti-coagulant substances. So it can guarantee that value of blood sugar can be kept invariable within 72 hours.

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**Glucose Tube**





**PT Tube** is mainly used for the test of blood coagulation mechanism. It is filled with buffered tri-sodium citrate solution, and citrate concentrations of either 0.109 mol/l (3.2%) or 0.129mol/l (3.8%) are available. The choice of the concentration depends upon the policies of the laboratories. The mixing ratio is 1 part citrate to 9 parts blood with advantage of high accurate blood-to- additive ratio. It can provide an excellent condition for the test of PT and APTT values.

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**PT Tube**



**Heparin Tube** is used in blood collection and anti-coagulation not only for routine clinical biochemistry tests and emergency biochemistry tests but also for some test items in blood rheology. It is coated with lithium heparin or sodium heparin. The anticoagulant heparin activates antithrombins, thus blocking the coagulation cascade and producing whole blood/plasma sample instead of clotted blood plus serum. **Aron Zist** validates that through its special treatment, most of the plasma indexes can be repeated within 6 hours, especially for such sensitive ones as AST, ALT, TBIL, DBIL and GGT.

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**Heparin Tube**



## | Plasma Blood Collection Tube

Aron Zist\* plasma blood collection tube aims at providing high-quality plasma specimen for medical laboratories. It includes 5 kinds of tubes: Glucose Tube with gray cap, PT Tube with light blue cap, Heparin Tube with green cap, Gel & Heparin Tube with green cap and EDTA K2 Tube with light green.

**Gel & Heparin Tube** is a kind of anti-coagulation tube with inert separation gel at the bottom of heparin tube (Lithium Heparin or Sodium Heparin). Through centrifugation, the separation gel can form a barrier between plasma and blood cell and prevent substance exchange between them, while keeping the original characters of plasma. Plasma specimen obtained is the best choice for electrolyte test, and is also used for plasma analysis is routine biochemistry and any emergent biochemistry. The specimen could be put into the equipment directly and kept stable in cold storage for 48 hours, which favors the specimen retest.

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**Gel & Heparin Tube**





This model of blood collection tube has two uses. One as coagulation tests (PT/PTT) and the other as sedimentation test (ESR). Two marks are marked on the label : the first mark is for ESR test (1.25 ml) and the second mark is for coagulation test (2.5 ml). The anticoagulant used is the same as trisodium citrate 3.8%

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**ESR/PT Tube**



## | Whole Blood Collection Tube

Aron Zist\* whole blood collection tube aims at providing high-quality blood specimen for medical laboratories. It includes 2 kinds of tubes: EDTA Tube with Light green door (EDTA.K2/K3) and ESR Tube with black cap.



**EDTA Tube** is widely used in clinical hematology as well as various kinds of blood cell test instruments. It makes use of EDTA K2/K3 as anticoagulant. Meanwhile, it offers a comprehensive protection for blood cell, especially for protecting the blood platelet, so that it can effectively stop the gathering of blood platelet and makes the form and volume of blood cell uninfluenced in a long time. EDTA tube can be used in direct sampling analyzers without actually being opened.

**EDTA Tube**





**ESR Tube** is used in blood collection and anticoagulation for sedimentation rate test. It contains a 3.8% (0.129mol/L) or 3.2% of 1 part citrate solution to 4 parts blood. ESR measurement refers to the Westergren method.

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**ESR Tube**





### **Blood collection tube with separating granules**

These tubes include 2 caps: red cap and yellow cap. Containing clot activator to facilitate in the coagulation process, it's also a separator granule instead of a separating gel.

Advantages of using these blood collection tubes:

Reasonable price compared to tubes containing separating gel and easy separation of blood serum and no mixing of clot part with serum and it's possible to access the clot part in order to re-centrifuge the tube. These tubes are used daily for biochemical test and other tests performed on blood serum and do not require long-term maintenance is very convenient.

# Non-Evacuated Blood Collection Tubes

Classification	Item	Additive	Color		Tube Material	Main Intended Use	Basic Tube size (mm)
Serum Tube	No Additive Tube	/	red			Determinations in serum for clinical biochemistry, immunology and serology	13*100 16*100
	Pro-coagulation Tube	Clot Activator	red		Plastic		
	Gel & Clot Activator Tube	Gel & Activator	Golden		Plastic		
	Glucose Tube	Protassium Oxalate/Sodium Fluride or EDTA/Sodium fluoride	Grey		Plastic	Determinations in stabilized anti-coagulated whole blood or plasma for glucose and lactate testing	13*100
	PT Tube	0.109mol/L or 0.129mol/L Sodium Citrate (1:9)	Light Blue		Plastic	Determinations in citrated plasma for coagulation testing	13*75
	Heparin Tube	Lithium Heparin Sodium Heparin	green		Plastic	Determinations in heparinized plasma for clinical chemistry	13*100
	Gel & Heparin Tube	Gel & Lithium Heparin Or Sodium Heparin	Green		Plastic	For plasma Determinations in chemistry	13*100
	ESR/PT Tube	0.129 mol/L	pink		Plastic	Determinations citrated plasma for PT/PTT test or blood cell For ESR test	13*100
Whole Blood Tube	EDTA Tube	EDTA.K2 EDTA.K3	Light green		Plastic	Determinations in EDTA whole blood for hematology	13*75
	ESR Tube	0.109mol/L or 0.129mol/L Sodium CITRATE (1:4)	Black		Glass	Blood cell sedimentation rate test	9*120 13*75