


Product Data

Product Name: IMPROVACUTER[®] Sodium Citrate (9NC) Tube

Item Code and specification and package information:

Catalog Number	Items	Tube Size	Volume	Closure Type	Additive State	Tube material	Label	Color	Pack/Carton Qty
634810242	Citrate/9NC (0.109M)	16x100mm	8.1ml	Safety Cap	Liquid	PET	transparent	light blue	50/1000
633450242	Citrate/9NC (0.109M)	13×100mm	4.5ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
633360242	Citrate/9NC (0.109M)	13×100mm	3.6ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
633270242	Citrate/9NC (0.109M)	13×100mm	2.7ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
633180242	Citrate/9NC (0.109M)	13×100mm	1.8ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632450242	Citrate/9NC (0.109M)	13×75mm	4.5ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632360242	Citrate/9NC (0.109M)	13×75mm	3.6ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632270242	Citrate/9NC (0.109M)	13×75mm	2.7ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632180242	Citrate/9NC (0.109M)	13×75mm	1.8ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
634812242	Citrate/9NC (0.129M)	16x100mm	8.1ml	Safety Cap	Liquid	PET	transparent	light blue	50/1000
633452242	Citrate/9NC (0.129M)	13×100mm	4.5ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
633362242	Citrate/9NC (0.129M)	13×100mm	3.6ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
633272242	Citrate/9NC (0.129M)	13×100mm	2.7ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
633182242	Citrate/9NC (0.129M)	13×100mm	1.8ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632362242	Citrate/9NC (0.129M)	13×75mm	3.6ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632272242	Citrate/9NC (0.129M)	13×75mm	2.7ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632182242	Citrate/9NC (0.129M)	13×75mm	1.8ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632270243	Citrate/9NC (0.109M) PT double wall	13×75mm	2.7ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632180243	Citrate/9NC (0.109M) PT double wall	13×75mm	1.8ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632272243	Citrate/9NC (0.129M) PT double wall	13×75mm	2.7ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
632182243	Citrate/9NC (0.129M) PT double wall	13×75mm	1.8ml	Safety Cap	Liquid	PET	transparent	light blue	100/1000
634810202	Citrate/9NC (0.109M)	16x100mm	8.1ml	Safety Cap	Liquid	PET	paper	light blue	50/1000
633450202	Citrate/9NC (0.109M)	13×100mm	4.5ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
633360202	Citrate/9NC (0.109M)	13×100mm	3.6ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
633270202	Citrate/9NC (0.109M)	13×100mm	2.7ml	Safety	Liquid	PET	paper	light	100/1000

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				Cap				blue	
633180202	Citrate/9NC (0.109M)	13×100mm	1.8ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632450202	Citrate/9NC (0.109M)	13×75mm	4.5ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632360202	Citrate/9NC (0.109M)	13×75mm	3.6ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632270202	Citrate/9NC (0.109M)	13×75mm	2.7ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632180202	Citrate/9NC (0.109M)	13×75mm	1.8ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
634812202	Citrate/9NC (0.129M)	16x100mm	8.1ml	Safety Cap	Liquid	PET	paper	light blue	50/1000
633452202	Citrate/9NC (0.129M)	13×100mm	4.5ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
633362202	Citrate/9NC (0.129M)	13×100mm	3.6ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
633272202	Citrate/9NC (0.129M)	13×100mm	2.7ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
633182202	Citrate/9NC (0.129M)	13×100mm	1.8ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632362202	Citrate/9NC (0.129M)	13×75mm	3.6ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632272202	Citrate/9NC (0.129M)	13×75mm	2.7ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632182202	Citrate/9NC (0.129M)	13×75mm	1.8ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632270203	Citrate/9NC (0.109M) PT double wall	13×75mm	2.7ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632180203	Citrate/9NC (0.109M)PT double wall	13×75mm	1.8ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632272203	Citrate/9NC (0.129M) PT double wall	13×75mm	2.7ml	Safety Cap	Liquid	PET	paper	light blue	100/1000
632182203	Citrate/9NC (0.129M) PT double wall	13×75mm	1.8ml	Safety Cap	Liquid	PET	paper	light blue	100/1000

Note: the specification is not limited to the above table. Refer to product list for full specification.

Subject and application

IMPROVACUTER® Sodium Citrate 9:1 Tubes contain buffered sodium citrate additive. Citrate Concentrations of either 0.109 mol/l (3.2 %) or 0.129 mol/l (3.8 %) are available. The choice of the Concentration depends upon the policies of the laboratories. The mixing ratio is 1part citrate to 9 parts blood.

See Limitations of System, Cautions and Warnings, Specimen Collection and Handling, Analytic Equivalency Sections.

This product has to be used by professionally qualified personnel.

Product photo



Composition and raw material:

Tubing:

- Tubing material: polyethylene terephthalate (PET), inner wall (double wall)- polypropylene (PP)
- Diameter and height: 13mmx75mm, 13x100mm, 16x100mm

Safety cap:

- Raw material: Safety cap against aerosol, in polyethylene
- Color: Blue

Rubber stopper:

- Raw material: Butyl rubber

Additive: Sodium Citrate (9NC 0.109M/L) / (9NC 0.129M/L)

Raw material certifications

All raw materials used are non toxic, food and medical certified, as per European directives.

Shelf life

9 (nine) months for PET tubes from manufacturing date,

Storage

Storage tubes at 4-25°C (39-77°F) , unless there is other notice on the package or label. All liquid preservatives and anticoagulants are clear and colorless. Do not use if they are discolored or contain precipitates. Clot activator may be white or brownish; fluoride and fluoride/oxalate may be pale pink. Do not use if color has changed. EDTA or clot activator spray coated additives may have a brownish appearance; this does not affect the performance of the EDTA additive or clot activator. Do not use tubes after their expiration date.

Tubes expire on the last day of the month and year indicated.

Sterilization

Shipping Information

Normal shipping; Normal dry container

Sterilization

By irradiation as per European Union directives:

UNI EN 552, UNI EN 556-1 ISO, 11137, UNI EN ISO 11737-2

Centrifugation

Do not centrifuge glass tubes at forces above 2200 RCF in a horizontal head (swinging bucket) centrifuge as breakage may occur. Glass tubes may break if centrifuged above 1300 RCF in fixed angle centrifuge heads.

Always use appropriate carriers or inserts. Use of tubes with cracks or chips or excessive centrifugation speed may cause tube breakage, with release of sample, droplets, and an aerosol into the centrifuge bowl. Release of

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

















these potentially hazardous materials can be avoided by using specially designed sealed containers in which tubes are held during centrifugation. Centrifuge carriers and inserts should be of the size specific to the tubes used. Use of carriers too large or too small for the tube may result in breakage.

The following table gives recommended centrifuge RCF and time using a horizontal head (swinging bucket) centrifuge:

Centrifugation RCF and Time Recommendations		
Product	RCF (g)	Time (min)
Sodium Citrate (9NC) Tubes (Platelet-rich plasma)	150	5
Sodium Citrate (9NC) Tubes (Platelet-poor plasma)	1500-2000	10
Sodium Citrate (9NC) Tubes (Lack of platelet plasma)	2500-3000	20

Information on the label and symbols

Symbol and Mark Key

 Single Use	 In Vitro Diagnostic Medical Device	 Date of Manufacture
 Expiry Date	 Temperature Limitation	REF Catalog Number
 Batch Code	 Lower Limit of Temperature	 Consult Instructions for Use
 Sterile	 Upper Limit of Temperature	 Biological Risk
 This End Up	 Method of Sterilization (Irradiation)	 Fragile, Handle with Care
 Manufacturer	 Authorized Representative	 Keep Away from Sunlight
 Recyclable	 Caution, Consult Accompanying Documents	

ISO/EN Standards

ISO 6710 “Single-use containers for venous blood specimen collection”

EN 14820 “Single-use containers for human venous blood specimen collection”

ISO 11137 “Sterilization of health care products – Requirements for validation and routine control – Radiation sterilization”

Clinical and Laboratory Standards Institute (CLSI)

GP39-A6 Tubes and Additives for Venous and Capillary Blood Specimen Collection; Approved Standard - Sixth Edition

GP34-A Validation and Verification of Tubes for Venous and Capillary Blood Specimen Collection; Approved Guideline

GP41-A6 Procedures for the Collection of Diagnostic Blood Specimens by Venipuncture; Approved Standard—Sixth Edition

GP44-A4 Procedures for the Handling and Processing of Blood Specimens for Common Laboratory Tests; Approved Guideline—Fourth Edition.

H21-A5 Collection, Transport, and Processing of Blood Specimens for Testing Plasma-Based Coagulation Assays and Molecular Hemostasis Assays; Approved Guideline—Fifth Edition