VISION PURIFY RNA EXTRACTION KIT S

REF **VIS100287**

This manual must be read attentively and completely before using this product. If you have any problems, please contact our Technical Service Center for help.

INTENDED USE

VISION Purify RNA Extraction Kit S is for RNA extraction from biological material (upper and lower respiratory tract, other biological samples) for general laboratory usage.

PRODUCT DESCRIPTION

Vision Purify RNA Extraction Kit S is designed for purifying RNA from serum that is immediately ready for genomic analysis. Vision Purify RNA Extraction Kit offers simple, high yield, time-saving and innovative RNA purifying system with special buffers and spin column that is designed with latest technology. The advanced lysis system aims to disrupt the cell membrane, while wash buffer removes the contaminants and impurities successfully. The purified RNA can be used in downstream applications including Northern Blotting, Dot Blotting, in vitro translation, molecular cloning, PCR, and other analytical procedures.

PRODUCT CONTENTS

Vision Purify RNA Extraction Kit S is composed of Lysis Buffer, Proteinase K, Proteinase K Buffer, Binding Buffer, Wash Buffer I, Wash Buffer II, Elution Buffer, Spin Column.
Kit Contents: For 100 Reactions;

	Kit Content	Volume/Pieces
SLB	Lysis Buffer	20 ml x 1
PK	Proteinase K	20 mg x 1
PK BF	PK Buffer	1 ml x 1
SMBB	Binding Buffer	25 ml x 1
SWB1	Wash Buffer I	23 ml x 2
SWB2	Wash Buffer II	23 ml x 2
SEB	Elution Buffer	6 ml x 1
SC	Spin Column	100 pieces

***Note:** It is suggested to use the buffer within 6 months after opening the vial.

SPECIMEN COLLECTION, HANDLING, AND STORAGE

CLSI MM13-A might be followed for adequate specimen collection, storage, and transport.

VISION Purify RNA Extraction Kit S buffers are kept at room temperature (18-25 ℃) before first use.

Proteinase K is delivered as lyophilized with Proteinase K dissolving buffer. After dissolving Proteinase K with Proteinase K Buffer, keep at -20 ℃.

***Note**: Wear lab coat and gloves when working with buffers as the buffers contain chemicals irritant to human skin.

REQUIRED MATERIALS

- 1,5 ml nuclease-free tubes
- 10 µl, 100 µl, and 1000 µl Micropipettes
- 10 µl, 100 µl, and 1000 µl pipette tips
- Centrifuge
- Vortex
- Incubator

PROPERTIES

Sample: Body Fluids
Operation time: 40 min.
RNA Yield: Up to 30 ng

PREPARING SAMPLES

The body fluid samples are kept at 4℃. Prior to RNA extraction, the body fluid samples are homogenized by vortexing.

PROTOCOL

1. Add 200 µl body fluid samples, 200 µl **Lysis Buffer,** 10 ul **Proteinase K** into a 1.5 ml eppendorf tube by pipetting.
2. Mix the samples by vortexing for 10-15 seconds.
3. Incubate the mix on a heater at 65℃ for 15 minutes.
4. Add 250 µl **Binding Buffer** and vortex for 10-15 seconds wait 5 min at RT.
5. Transfer the mix to spin column, centrifuge at 8000 rpm for 1 minute.
6. Transfer fluid from collection tube to spin column and centrifuge at 8000 rpm for 1 minute and discard the flow through.
7. Add 450 µl **Wash Buffer I**, centrifuge at 8000 rpm for 1 minute and discard the flow through.
8. Add 450 µl **Wash Buffer II**, centrifuge at 8000 rpm for 1 minute.
9. Centrifuge at 10.000 rpm at 2 minute and the change the collection tube with eppendorf tube and wait 1 minute.
10. Add 60 µl **Elution Buffer** and incubate at room temperature for 5 minute and centrifuge at 10.000 rpm for 1 minute.

***Note:** Prior to use add 1 ml PK Buffer into 20 mg/ml Proteinase K and mix by pipetting. Store Proteinase K mixture at -20 ℃**.**

SUGGESTIONS

Prior to starting the protocol; Binding Buffer, Wash Buffer I, and Wash Buffer II might be cooled to reduce nucleic acid solubility.

QUALITY CONTROLS

RNA concentration and purity are determined with UV Spectrophotometric measurements. The ratio of absorbance at 260 and 280 nm (A260/A280) is used to determine RNA purity. The A260/A280 ratio of 1.8 signifies pure RNA. However, a ratio between 1.8 and 2.0 is generally accepted as pure RNA.
Extracted RNA is amplified for human genes by qPCR.
In Agarose Gel Electrophoresis the extracted RNA bands stained with ethidium bromide are visualized with UV.

SAFETY INSTRUCTIONS

VISION Purify RNA Extraction Kit S contains hazardous content. Follow the safety instructions according to GHS Classification.

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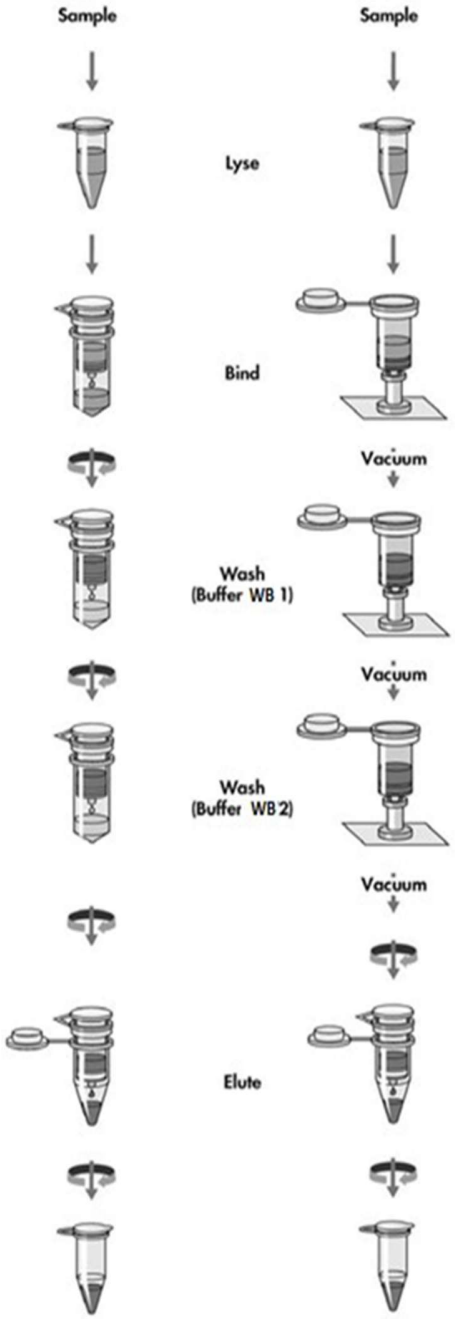
FLOWCHART OF EXTRACTION



GHS CLASSIFICATION

Component	H- phrases	P- phrases
Lysis Buffer	H302, H314, H412, H308 	P260, P264, P270,P273, P280,P301+ P31,P301+ P330+ P303+ P361+ P353, P304+ P340 P305+ P351+ P338,P310,P321, P363,P405 P501
Binding Buffer	H225, H302, H315, H319, H336 	P261,P264,P301+P312 P302+ P352, P304 + P340 +P312,P305+P351+ P338, P264,P270,P280,P240,P241,P242
Wash Buffer 1	H225,H302,H315,H319,H336, 	P201, P202, P260, P501 P304 +P340, P233, P271 P305 +P351+P338, P280, P305 +P351+P338,P370+P378,P403+P233, P405
Wash Buffer 2 	H226,H315, H319,H350, H361, H370 	P301+ P330+ P303+ P361+ P353, P304+ P340 ,P305+ P351+ P338,P310,P321, P363,P405 ,P501
Proteinase K	H315, H317, H319, H334, H335 	P261, P264, P271, P272, P280, P285, P302+P352, P304+P340, P304+P341, P305+P351+P338, P312, P321, P332+P313, P333 +P313, P337+P313, P342+P311 P362, P363, P403+P233, P405, and P501

LIST OF SYMBOLS

	Üretici	IVD	In vitro diagnostik tıbbi cihaz		Kullanma talimatına başvurun
	Son kullanma tarihi		Sıcaklık limiti (2-30°C)	EC REP	Avrupa Topluluğu'nda yetkili temsilci
LOT	Lot numarası		Tekrar kullanmayın		Nemden koruyun
REF	Katalog numarası		Ambalajı hasarlıysa kullanmayın		Güneş ışığından koruyun
	Üretim tarihi	CE	CE işareti		<n sayıda> deney için yeterli miktar içerir

CONTACT

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