ISO 20186-1:2019 (E)

Molecular in vitro diagnostic examinations — Specifications for pre-examination processes for venous whole blood — Part 1: Isolated cellular RNA

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 General considerations

5 Outside the laboratory

- 5.1 Specimen collection
- 5.1.1 Information about the specimen donor/patient
- 5.1.2 Selection of the venous whole blood collection tube by the laboratory
- 5.1.3 Venous whole blood specimen collection from the donor/patient and stabilization procedures
- 5.1.4 Information about the specimen and storage requirements at the blood collection facility
- 5.1.4.1 General
- 5.1.4.2 Using blood collection tubes with stabilizers
- 5.1.4.3 Using blood collection tubes without stabilizers
- 5.2 Transport requirements

6 Inside the laboratory

- 6.1 Specimen reception
- 6.2 Storage requirements
- 6.3 Isolation of the cellular RNA
- 6.3.1 General
- 6.3.2 Using blood collection tubes with RNA profile stabilizers
- 6.3.3 Using blood collection tubes without RNA profile stabilizers
- 6.4 Quantity and quality assessment of isolated cellular RNA
- 6.5 Storage of isolated cellular RNA
- 6.5.1 General
- 6.5.2 Cellular RNA isolated with commercially available kits
- 6.5.3 Cellular RNA isolated with the laboratory's own protocols

Annex A (informative) Impact of pre-examination process steps on venous whole blood cellular RNA profiles

- A.1 General information about operated experiments in Annex A and Annex B
- A.2 Influence of blood collection tube type (with or without blood cellular RNA profile stabilizer) on the analysis of specific blood cellular RNA profiles
- A.2.1 Unstable blood cellular RNA profiles
- A.2.2 Stable blood cellular RNA profiles

Annex B (informative) Influence of blood storage temperature on blood cellular RNA profiles

Page count: 20