



**NSAI**  
Standards

Irish Standard Recommendation  
S.R. CEN/TS 16835-1:2015

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

**S.R. CEN/TS 16835-1:2015**

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English Version

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

Tests de diagnostic moléculaire in vitro - Spécifications  
relatives aux processus préanalytiques pour le sang  
veineux total - Partie 1 : ARN cellulaire isolé

Molekularanalytische in-vitro-diagnostische Verfahren -  
Spezifikationen für präanalytische Prozesse für venöse  
Vollblutproben - Teil 1: Isolierte zelluläre RNS

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## **Foreword**

This document (CEN/TS 16835-1:2015) has been prepared by Technical Committee CEN/TC 140 "In vitro diagnostic medical devices", the secretariat of which is held by DIN.

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## **CEN/TS 16835-1:2015 (E)**

### **Introduction**

Molecular *in vitro* diagnostics has enabled a significant progress in medicine. Further progress is expected by new technologies analyzing signatures of nucleic acids, proteins, and metabolites in human tissues and body fluids. However, the profiles of these molecules can change drastically during primary sample collection, transport, storage, and processing thus making the outcome from diagnostics or research unreliable or even impossible because the subsequent analytical assay will not determine the situation in the patient but an artificial profile generated during the pre-examination process. Therefore, a standardization of the entire process from sample collection to RNA analysis is needed. Studies have been undertaken to determine the important influencing factors. This Technical Specification draws upon such work to codify and standardize the steps for venous whole blood cellular RNA analysis in what is referred to as the preanalytical phase.

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