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Animal health diagnostic analyses - Electronic data exchange in laboratory analysis

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/26

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English Version

Animal health diagnostic analyses - Electronic data exchange in laboratory analysis

Analyses de diagnostic en santé animale - Échange de données électroniques concernant les analyses de laboratoire

Tiergesundheitsdiagnostische Analysen - Elektronischer Datenaustausch bei Labortests

This European Standard was approved by CEN on 15 September 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 18029:2025 (E)**European foreword**

This document (EN 18029:2025) has been prepared by Technical Committee CEN/TC 469 “Animal health diagnostic analyses”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

Numerous partners are involved in animal health monitoring/surveillance, such as the competent authorities and public establishments, and other professional organizations.

A standardized and efficient exchange of electronic information on animal health knowledge is essential. This sharing process involves exchanging information and making sure that the information is comparable and coherent, and it requires that the information systems of the various players in this field are interoperable.

The use of a common language based on a standard data exchange format is the most appropriate response to this need – one that is open and accessible to all, and uses lists of common codes.

This standardization offers numerous advantages:

- to be able to process data from a large number of laboratory tests in a short period of time, especially in the context of a health crisis;
- to facilitate animal health data reporting and analysis;
- to guarantee interoperability within the animal health community on the laboratory test data;
- to improve data reliability and data quality.

The ultimate goal is to propose a common data exchange language (format of the messages and the dictionary of all the items that compose the message) between the prescribers and the laboratories in the animal health sector. This document provides only the format of the common data exchanges language. It can be considered as the first step in the standardization of electronic data exchange in laboratory analysis. A subsequent step could be the development of code lists.

This standardization is based on the e-Labs format, which consists of a set of files, processes and rules allowing for the standardization of data exchanges between prescribers and laboratories. e-Labs is the name of the messages that are proposed to be standardized in order to exchange laboratory data between two different information systems. This name refers to e for electronic and lab for laboratories.

This standard exchange format has been developed using tools designed by UN/CEFACT (United Nations Centre for Trade Facilitation and Electronic Business). UN/CEFACT is a United Nations organization that promotes and establishes the interoperability of information exchanges through the definition of data exchange format standards. These standards are available on the UN/CEFACT website [1].

UN/CEFACT designed an e-Labs exchange format to standardize transactions of analytical data in agriculture in the broadest sense.

The name of the tags mentioned in this document should not be translated into a national language, since the tags are used by computer systems to understand and interpret the message. Therefore, it is important that these tags are identical for all computer systems and are not translated into a national language.

This document will have a positive effect on several Sustainable Development Goals (SDG's). By supporting animal health and reducing severe diseases and losses in animal production, it contributes towards zero hunger (Goal 2) and responsible consumption and production (Goal 12) [2].

EN 18029:2025 (E)**1 Scope**

This document specifies a common data exchange format (i.e. format of the messages and the dictionary of all the items that compose the message) between the prescribers and the laboratories in the animal health sector.

This document is intended for prescribers (purchasers) and service providers in charge of collecting samples and conducting analyses (including laboratories) who are interested in computerizing and standardizing their data exchanges, particularly in the animal health sector.

This document excludes the code lists that are required for unambiguous data exchange.

2 Normative references

There are no normative references in this document.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN