ISO/TS 24420:2023-05 (E)

Biotechnology - Massively parallel DNA sequencing - General requirements for data processing of shotgun metagenomic sequences

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Processingworkflow 4

5 Data processing 5
5.1 Facilities and software requirements 5
5.2 Sequence quality control and error determination 5
5.3 Sequence assembly 6

6 Data analysis 6
6.1 Annotation 6
6.2 Calculation of species relative abundance 7
6.2.1 Species analysis 7
6.2.2 Gene analysis 7

7 Data archive and metadata 7
7.1 Original data 7
7.2 Sequencing analytical data 7
7.3 Data directory and archive 8
7.3.1 General 8
7.3.2 Directory of data elements 8
7.3.3 Data archiving 8
7.4 Metadata 8

Annex A (informative) Examples of data format 10

Annex B (informative) Directory of data elements 16

Bibliography 18