

**INTERNATIONAL UNION OF PURE
AND APPLIED CHEMISTRY**

**COMMISSION ON QUANTITIES AND UNITS
IN CLINICAL CHEMISTRY**

**INTERNATIONAL FEDERATION
OF CLINICAL CHEMISTRY**

EXPERT PANEL ON QUANTITIES AND UNITS

**LIST OF QUANTITIES IN
CLINICAL CHEMISTRY**

(Recommendations 1978)

Prepared for publication by
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**INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY
AND
INTERNATIONAL FEDERATION OF CLINICAL CHEMISTRY**

IUPAC SECTION ON CLINICAL CHEMISTRY

COMMISSION ON QUANTITIES AND UNITS IN CLINICAL CHEMISTRY

and

IFCC COMMITTEE ON STANDARDS

EXPERT PANEL ON QUANTITIES AND UNITS

APPROVED RECOMMENDATION (1978)

LIST OF QUANTITIES IN CLINICAL CHEMISTRY

Prepared for publication by

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Preface

The Commission on Quantities and Units in Clinical Chemistry * is a part of the Section on Clinical Chemistry of the International Union of Pure and Applied Chemistry (IUPAC). The Expert Panel on Quantities and Units ** is a part of the Committee on Standards of the International Federation of Clinical Chemistry (IFCC). These two bodies, the Commission and the Expert Panel, have worked jointly on this document, the former mainly concerned with basic philosophy, the latter with problems of implementation.

The aim of this document is to serve as a guide in supplanting present ver-

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nacular names for measurable properties in clinical chemistry. Systematic and more informative names are recommended, based on chemical and biochemical nomenclature. At the same time, 'molecular' kinds of quantities and SI units are preferred.

The tentative version of the present publication appeared as a IUPAC—IFCC (yellow) *Information Bulletin*, Appendices on Tentative Nomenclature, Symbols, Units, and Standards, No. 21, February 1972. As a consequence of comments from knowledgeable colleagues and reconsiderations by the Commission and Expert Panel a Recommendation 1973 contained many, mostly small, modifications from the tentative version. The Recommendation 1973 was approved by IUPAC in 1973 and published in Pure and Applied Chemistry 1974, 37, 547—572. The IFCC Council in 1975 did not accept the text on account of another view on quantities and units in enzymology presented in the IFCC Expert Panel on Enzymes' Provisional Recommendation (1974) [6]. At a joint meeting in Strasbourg 1976 the Expert Panel on Quantities and Units, the Commission on Quantities and Units in Clinical Chemistry, and the Expert Panel on Enzymes reconciled their concepts, which were further modified according to the advice of the IUPAC Interdivisional Committee on Nomenclature and Symbols. The present document incorporates the resulting changes in names and definitions of kinds of quantities in enzymology.

Where it conflicts, the present document supersedes the larger IUPAC—IFCC Recommendation 1966, its translation into Spanish, and the IUPAC Recommendation 1973.

This Recommendation has been approved by IUPAC and by IFCC 1978.

Contents

Preface	2483
Abbreviations of references	2484
0. Introduction	2485
1. Scope of list	2485
2. Structure of list	2486
3. Systems	2486
4. Components	2487
5. Kinds of quantities	2489
6. Numbers	2491
7. Units	2491
8. References	2491
9. Alphabetical list of quantities	2492
10. Index	2501

Abbreviations of references

CBN	Commission on Biochemical Nomenclature
CQUCC	Commission on Quantities and Units in Clinical Chemistry
CGPM	Conférence Générale des Poids et Mesures
EPQU	Expert Panel on Quantities and Units
ICSH	International Committee for Standardization in Hematology

IFCC	International Federation of Clinical Chemistry
INN	International Non-Proprietary Name
ISO	International Organization for Standardization
IUB	International Union of Biochemistry
IUPAC	International Union of Pure and Applied Chemistry
IUPAP	International Union of Pure and Applied Physics
NFN	Det nordiske Farmakopénævn
QU-R66	Quantities and Units in Clinical Chemistry. Recommendation 1966 (IUPAC-IFCC) [2]
WAPS	World Association of (Anatomic and Clinical) Pathology Societies

0. Introduction

0.1. In 1967 a monograph [2] (QU-R66) appeared containing a *Recommendation 1966* of the Commission on Clinical Chemistry of the International Union of Pure and Applied Chemistry (IUPAC) and of the International Federation of Clinical Chemistry (IFCC). Since then, the work has been continued by the Commission on Quantities and Units in Clinical Chemistry (CQUCC) of IUPAC and by the Expert Panel on Quantities and Units (EPQU) of IFCC (cf. footnotes on p. 2483). A condensed and revised version of QU-R66 was printed as a separate Recommendation [5], now updated [7].

0.2. Concerning names of clinical chemical quantities, the *Recommendation 1966* stated (QU-R66-6.3.1) that *the generic part of the quantity name be unambiguous and contain the following three segments of information:*

system of which a component or function is measured, e.g. Serum

component, e.g. Sodium ion

kind of quantity, e.g. 'molar concentration', now called substance concentration (see 5.2.1).

This statement was supported by a joint Recommendation 1972 from ICSH, IFCC, and WAPS [3].

0.3. On the basis of a thorough discussion (QU-R66-2.3) it was also stated in the *Recommendation 1966* (QU-R66-4.6) that the kind of quantity *amount of substance* is of 'central importance in clinical chemistry'. Consequently, this base kind of quantity (measured in moles) and derived kinds of quantities, e.g. substance concentration and substance fraction (mole fraction), are preferred for mass, mass concentration, mass fraction, respectively. This recommendation was also joint [3].

0.4. These principles, supplemented by some suggested rules, were applied to compile a List of Quantities (QU-R66-7) where the complete systematic names of one hundred quantities were given as examples for discussion.

0.5. The present new list of names is the outcome of further deliberations in CQUCC and EPQU and also incorporates various suggestions from other sources as well as developments in international nomenclature since 1966.

1. Scope of list

The quantities listed are meant to cover many, but not all, of those measured today in clinical chemical laboratories. It is hoped that names for quantities

omitted from the list may be created easily by analogy. Not every example is necessarily clinically relevant.

Methods of reporting loading test results, e.g. 'glucose tolerance', are not specifically given. They may contain information on the procedure followed and a table or graph of paired results for time and clinical chemical quantity.

As many clinical chemical laboratories are concerned also with determination of haematological, clinical physiological, clinical microbiological and toxicological quantities, some of these are included.

2. Structure of list

2.1. Each entry is given an alpha-numeric serial reference, e.g. B17, for convenience of identification in this document.

2.2. The general form of an entry is according to *Recommendation 1966* (QU-R66-3.1-1)

quantity = number · unit

2.3. Most of the quantity names listed have the recommended information arranged in the following form

System—Component, kind of quantity

Specifications in parentheses may be necessary to one or more of the three segments. More complex types of names occur, e.g. [A02, A13].

2.4. The quantities are listed alphabetically according to the component that, arbitrarily, has been printed in small capitals.

2.5. The value for each quantity is intended to represent a result from a 'healthy' adult person.

2.6. A set of printing rules is given in *Recommendation 1966* (QU-R66-3.8). The special problems inherent in the use of typewriters with restricted sets of characters have not been treated.

3. Systems

3.1. The system employed is supposed to be a certain 'healthy' person or a part of same (e.g. Blood, Leukocytes, Bilirubins) or some material the person takes up or excretes (e.g. Food, Faeces). Occasionally, a measuring system is mentioned [C13].

3.2. Table I (3.2) presents the codes used in this document (for others, see [7]).

Too many abbreviations and codes should be avoided and, in case of doubtful comprehensibility, the full name of the system should be given.

It may be necessary to indicate that the system of the quantity is part of a supersystem: (aB)P means that the plasma of the quantity is derived from arterial blood [D04].

When specifications are necessary, they are placed in parentheses after the system [D03, E04].

3.3. The calendar time of obtaining the specimen should be a part of the identification of the person as well as other relevant information on technique of obtaining the specimen plus the physiological state of the person. That the

TABLE I (3.2)
CODES FOR DESCRIPTION OF SYSTEM

Code	Meaning
B	Blood (in vessels)
aB	Arterial blood (in arterial vessels; including 'capillary blood')
vB	Venous blood (in venous vessels)
d	24-hour (change of system during 24 hours)
fPt	Fasting patient (measurement in the morning)
F	Faeces
P	Plasma (blood plasma)
Pt	'Patient' (individual on whom measurement is being made)
S	Serum (blood serum)
Sf	Spinal fluid
U	Urine

specimen was obtained in the morning and that the person was fasting is symbolized fPt. Thus, (fPt)S or ((fPt)B)S means that the serum of the quantity is derived from blood of the fasting person in the morning [A17].

The time (interval) during which a registered change occurred in a system is coded in one situation: d for change during 24 hours = 1 d (morning to morning) [A18]. Otherwise, the calendar time interval should be specified, e.g. after the kind of quantity.

4. Components

4.1. Names of components should be printed in full.

4.2. The following types of components may be distinguished.

4.2.1. *Definable chemical* components or *groups of such* are built of characteristic steric structures which may be symbolized by a chemical formula or common elementary entity, e.g. Carbamide, CO(NH₂)₂, Amino acid nitrogen, N.

4.2.2. *Functional chemical* components are chemical compounds or groups of compounds characterized by common properties or effects, e.g. Alkaline phosphatase.

4.2.3. *Physical* components are composed of microscopic or macroscopic physical bodies, which constitute particles or phases in the system, e.g. Erythrocytes.

4.2.4. Chemical or physiological processes may serve as components, e.g. Coagulation, Capillary bleeding [C34, C09].

4.3.1. Chemical names are in accordance with IUPAC recommendations.

4.3.2. Sodium is the name of the metallic element with atomic number 11 and oxidation number zero. This component is not found in biological systems, whereas *Sodium ion* is present.

4.3.3. If doubt may arise as to oxidation number the *Stock notation* is employed using Roman numerals in parentheses. Thus, Calcium(II) signifies calcium with oxidation number +II irrespective of whether it be free ion Ca²⁺ or different kinds of chelated calcium(II) with ionization charges more difficult to define [C04, C05, C06, C07].

4.3.4. *Roman numerals* are sometimes used for other kinds of specifications to the component name, e.g. for porphyrins or coagulation factors [U11, C35].

4.3.5. *Trivial chemical names* have often been chosen for brevity instead of systematic chemical names. Where several trivial names exist for a substance the more 'chemical', i.e. the more informative, is given, e.g. carbamide for urea [C10].

4.3.6. *Prefixes defining stereoisomeric structure* are omitted if not essential, e.g. Glucose for D-Glucose.

4.4. For drugs, the names from national or, preferably, international pharmacopoeas should be used (NFN, INN).

4.5. *Enzymes* are given Recommended Names according to the *Recommendation 1972* from International Union of Biochemistry [1] [A09].

4.6. *Blood cells* are named according to suggestions by the Working Group on Standardized Documentation of Hematological Findings of the Expert Panel on Hematological Documentation under the International Committee for Standardization in Hematology (ICSH) [B08, E01, P08]. This nomenclature is not yet accepted by ICSH, but seems short, logical, and directly understandable.

4.7. Taxonomic names of *genera*, species, and subspecies are printed italic [M16, N01].

4.8. For *acids and bases*, defined according to Brønsted, the totality of corresponding acid-base pairs or series are often considered as one group. No accepted rules exist for naming such mixtures. The following rules are recommended:

4.8.1. The designation of the maximally ionized form of those in question is given, omitting the word 'ion'. Thus, Ammonium [A25] comprises ammonium ion and ammonia; Creatininium [C47] comprises creatininium ion and creatinine; Ascorbate [A33] comprises ascorbate ion and ascorbic acid; Carbonate [C18] comprises carbonate ion, hydrogen carbonate ion, and carbonic acid, but *not* carbon dioxide. It should be noted that, in contrast to Ammonia and Ascorbic acid, the designations Ammonium and Ascorbate do not indicate single well-defined, chemical compounds.

4.8.2. Trivial names for organic amphotropic substances having trivial names are used for the totality of the amphotropic, acid, and base forms. E.g. Hydroxyproline [H22] means hydroxypyrolinium ion plus hydroxyproline (non-charged) plus hydroxypyrolinate ion.

4.8.3. Mixtures of a defined chemical component and its derivatives may be denoted by the plural form of the name of the pure substance [B13, C30].

4.9. The component as specified by a name may have to be further *specified* in parentheses to avoid ambiguity.

The elementary entity [C37, P02] or relative molecular mass [C05, T06] is often necessary information. The latter alternative is especially useful for proteins where the structure is not known in detail, and where the use of mass concepts also needs specification. For mixtures of substances limits may be specified [A17, A18, C35, U11]. To indicate the sum of components, specified in individual quantities, the specification 'total' may be applied [C08]. Also, specifications relating to a physiological process in which the substance participates may be needed [D05].

4.10. Often several equally correct names are possible for the same component [A21, N08] [C04, C08]. Which one is preferred depends on the context.

5. Kinds of quantities *

5.1. The kinds of quantities used are those given in *Recommendation 1966* with amendments and additions based on recent IUPAC and IUB recommendations, and approved by CQUCC and EPQU (see [7]).

5.2.1. The English designation 'molar' is now restricted by IUPAC to kinds of quantities with a definition containing the expression 'an extensive kind of quantity of the system divided by amount of substance of the system'. Consequently, 'molar concentration' is no longer acceptable; the systematic name is a cumbersome 'amount of substance concentration' or 'concentration' [4]. However, after consultation with IUPAC Commission on Symbols, Terminology, and Units, it was agreed that CQUCC can recommend the name 'substance concentration' to avoid confusion with the word 'concentration' in the colloquial and broader sense.

5.2.2. The IUPAC—IUB Recommendations 1972 [1] contain recent changes in some of the names and definitions for kinds of quantities and units in enzymology. They define the derived kind of quantity 'enzymic activity' as 'the rate of reaction of substrate that may be attributed to catalysis by an enzyme' and have the derived unit 'katal' = 1 mol/s. CQUCC and EPQU in their Recommendation 1973 [5] decided to retain the former suggestion of 'catalytic amount' considered as a base kind of quantity with a base unit 'katal', symbolized kat and defined as the catalytic amount of any catalyst (including any enzyme) that catalyses a reaction rate of one mole per second in an assay system. After consultation with the IUPAC—IUB Joint Commission on Biochemical Nomenclature, the IFCC Expert Panel on Enzymes, and the IUPAC Interdivisional Committee on Nomenclature and Symbols, it was agreed to change the kind of quantity name to 'catalytic activity' and to define this derived kind of quantity as a property of an enzyme 'measured by the catalysed rate of reaction of a specified chemical reaction, produced in a specified assay system' [7]. The katal is now proposed by IFCC, IUB, and IUPAC as a special name for the derived unit mole per second, when catalytic activity of an enzyme is involved. The use of the 'enzyme unit' (symbolized U) $\hat{=}$ 1 $\mu\text{mol}/\text{min}$ should be progressively discouraged. For a given method 1 U $\hat{=}$ 16,67 nkat. The derived kind of quantity 'catalytic activity concentration' (CBN: concentration of enzymic activity) uses the non-coherent unit kat/l; 1 U/ml $\hat{=}$ 16,67 $\mu\text{kat}/\text{l}$. (The sign $\hat{=}$ signifies 'corresponding to' and is used instead of an 'equal to' sign when dimensions on the two sides are different.)

5.2.3. CQUCC in Washington, DC, 1971, decided that the kind of quantity 'number of particles' (QU-R66-4.5) be renamed 'number (of entities)'. In accordance, 'particle concentration' (QU-R66-4.14) and the ambiguous 'particle frac-

* ISO, IUPAC, and IUPAP employ the term 'quantity' both for the abstract 'non-addressed' concept of, e.g., 'substance concentration' and for the 'addressed' measurable property of the 'substance concentration of sodium ion in the plasma of a given person at a stated calendar time'.

'*tion*' (QU-R66-4.15) were renamed 'number concentration' and 'number fraction' respectively.

5.3. A few recommended kinds of quantities that have not been systematically described by CQUCC are used in the List with recent modifications.

5.3.1. *Volume content* (QU-R66-5.1. Specific volume content) is the volume of the isolated component divided by the mass of the system [B16].

5.3.2. *Mean substance rate* (QU-R66-5.5. Mole rate) is the amount of substance of the component changed in or moved to or from a system divided by the time during which the component was changed or moved (see [D05]).

5.3.3. *Mean volume rate* (QU-R66-5.4. Volume rate) is defined analogously with 5.3.2, substituting 'volume' for 'amount of substance' [F03].

5.4.1. For so-called *qualitative tests*, a quantitative expression is used, employing a kind of quantity of an arbitrary nature (QU-R66-4.26). The two possible numerical values are given as specification to the kind of quantity: (0—1) [A27]. The symbols + and — are not recommended. (See also 5.7.1 and 5.7.3.)

5.4.2. Another, equally acceptable possibility is the use of, e.g., 'substance concentration' without specifications and a result showing whether the quantity is larger than or smaller than the substance concentration indicating the methodological limit of detection, e.g. Urine—Glucose, substance concentration <12 mmol/l instead of 0.

5.5. So-called *semiquantitative tests* are quantitative and should be treated as such [B14], see also 5.7.3.

5.6.1. In the List, all names of kind of quantity are given *unabbreviated*. If it be necessary to save space, the following, three possibilities may be considered.

5.6.2. The name of the kind of quantity may be *omitted with reference to a local rule, provided that misunderstandings are impossible in practice*. E.g. Plasma—Glucose = 8,2 mmol/l, where 'substance concentration' is omitted after Glucose, would be permissible if the data sheet states that: (i) the kind of quantity employed is given in the local laboratory manual or (ii) all results in 'mmol/l' refer to the kind of quantity 'substance concentration'.

5.6.3. The kind of quantity may be given as its recommended symbol (see QU-R66-4). E.g. Plasma—Glucose, $c = 8,2 \text{ mmol/l}$. All these symbols are in italics (underlined in typewritten text). The meaning of the symbols may be printed on the data sheet or in the laboratory manual.

5.6.4. The name for the kind of quantity is suitably abbreviated, see QU-R66-7.3-2, substituting 'substc.' for 'molec.' as abbreviation for '(amount of) substance concentration'.

5.7.1. *Specifications* are given in parentheses. The specific form shown is short and should not be taken as a recommendation.

5.7.2. For some kinds of quantities, the method used is a necessary specification: (i) kinds of quantities of an arbitrary nature; (ii) kinds of quantities relating to a component characterized by its function, e.g. an enzyme.

In other quantity names the inclusion or omission of the method is a matter of judgment about the dependence of the results on the current method(s).

5.7.3. If results are restricted to a scale of integers, the closed interval of possible results should be stated, see 5.4.1 and 5.5 [A27, B14].

5.7.4. In the case of quantities involving 'concentration' in liquids, the temperature of the system has been omitted.

5.7.5. In practice, specifications should be adapted to local needs. A number referring to the laboratory manual, which contains all relevant information, is the shortest specification possible.

6. Numbers

6.1. The numbers given in the List (value of quantity divided by unit) serve as illustrations and, presumably, contain only significant figures so that the analytical variation ('error') should influence only the last figure.

6.2. For some 'arbitrary' quantities, the result is always an integer, including 'zero', see 5.4.1 and 5.5 [A27].

6.3. When the magnitude of the result depends on the method used, the number is replaced by a question mark, as for enzymes [A02].

7. Units

7.1. In each case, the size of the unit has been chosen in accordance with the biological level and the estimated analytical variation of the result. Only factors that are 10^{3n} , where n is an integer, should be used.

The units kat, kat/l, and kat/mol are used for enzymes throughout for the reason stated in 6.3, but in most cases sub-units will be required.

7.2. Quantities having the dimension one use the base unit 'unity' (1) and one of the units 10^{3n} is given, e.g. 1 or 10^{-3} [A07, B06].

7.3. As a consequence of recommendations of CGPM [4] the following deviations from QU-R66 have been made:

7.3.1. 'Thermodynamic temperature' and 'temperature difference' are given in the base unit kelvin (K), not in degree Kelvin ($^{\circ}\text{K}$) [R01, F08].

7.3.2. 'Pressure' and 'partial pressure' use the unit pascal (Pa), which is identical with 'newton per square metre' (N/m^2) [B17].

8. References

(Abbreviations, see p. 2484)

- 1 Commission on Biochemical Nomenclature of the IUPAC and the IUB (1973) Enzyme Nomenclature, Recommendations (1972) on the Nomenclature and Classification of Enzymes together with their Units and the Symbols of Enzyme Kinetics, 443 pp., Elsevier, Amsterdam
- 2 Dybkær, R. and Jørgensen, K. (1967) Quantities and Units in Clinical Chemistry Including Recommendation 1966 of the Commission on Clinical Chemistry of the IUPAC and of the IFCC, x + 102 pp., Munksgaard, Copenhagen
- 3 International Committee for Standardization in Hematology, International Federation of Clinical Chemistry and World Association of (Anatomic and Clinical) Pathology Societies: Recommendation for Use of SI in Clinical Laboratory Measurements (1972). (See, e.g., (1973) Z. Klin. Chem. 11, 93 (only))
- 4 International Union of Pure and Applied Chemistry, Division of Physical Chemistry, Commission on Symbols, Terminology, and Units (1970) Manual of Symbols and Terminology for Physicochemical Quantities and Units, 44 pp., Butterworths, London. (Also in (1970) Pure Appl. Chem. 21, 1-44)
- 5 International Union of Pure and Applied Chemistry, Section on Clinical Chemistry, Commission on Quantities and Units and International Federation of Clinical Chemistry, Committee on Standards, Expert Panel on Quantities and Units (1974) Quantities and Units in Clinical Chemistry. Recommendation 1973. Pure Appl. Chem. 37, 517-546
- 6 IFCC, Committee on Standards, Expert Panel on Enzymes (1975) Provisional Recommendation (1974) on IFCC Methods for the Measurement of Catalytic Concentration of Enzymes. Clin. Chim. Acta 61, F11-F24, following p. 238
- 7 International Union of Pure and Applied Chemistry, Section on Clinical Chemistry, Commission on

Quantities and Units in Clinical Chemistry and International Federation of Clinical Chemistry, Committee on Standards, Expert Panel on Quantities and Units (1979) Quantities and Units in Clinical Chemistry. Approved Recommendation (1978). Clin. Chim. Acta 96, 157F-183F*

9. Alphabetical list of quantities

Component names in Section 9 are given in small capitals, e.g. ACETOACETATE. This does not constitute a recommendation. It is often preferable to use ordinary type or (boldface) heavy type, but with an initial capital, e.g. Acetoacetate or Acetoacetate.

The letter l and numeral 1 should have distinct forms in typewritten and printed texts.

Note. The choice between spelling with -æ- or -œ- or -e- is not meant to imply a preference.

*Also *Pure Appl. Chem.*, 51, 2451-2479 (1979).

TABLE II (9)

ALPHABETICAL LIST OF QUANTITIES (Synonyms are found in Section 10.)

P.A.A.C.51/12—M

Ser. No.	System—Component(specifications), kind of quantity(specifications) =	Number · Unit	Ref.
A01	S—ACETOACETATE, substance concentration	22 μmol/l	
A02	(B) Erythrocytes—ACETYLCHOLINESTERASE, catalytic activity per HEMOGLOBIN(Fe), amount of substance	? kat/mol	
A03	S—ACETYLCHOLINESTERASE, catalytic activity concentration(method)	? kat/l	
A04	dU—ACID(H), amount of substance(Jørgensen 1957)	40 mmol	
A05	S—ACID PHOSPHATASE, catalytic activity concentration(method)	? kat/l	
A06	S—ACID PHOSPHATASE(TARTRATE SENSITIVE), catalytic activity concentration(method)	? kat/l	
A07	(dU) Adrenalinium + noradrenalinium		
	—ADRENALINIUM, substance fraction	0.2 μmol	
A08	dU—ADRENALINIUM + NORADRENALINIUM, amount of substance	? μmol	
A09	S—ALANINE AMINOTRANSFERASE, catalytic activity concentration(method)	? kat/l	A14
A10	S—ALBUMIN, mass concentration	42 g/l	A15
A11	Sf—ALBUMIN, mass concentration	0.20 1	
A12	(S) Protein—ALBUMIN, mass fraction(method)	0.60 1	
A13	S—ALBUMIN, mass per GLOBULIN, mass	1.5 1	
A14	S—ALBUMIN(68 000), substance concentration	618 μmol/l	A10
A15	Sf—ALBUMIN(68 000), substance concentration	2.9 μmol/l	A11
A16	dP _t —ALDOSTERONE(PRODUCED), amount of substance(method)	138 nmol	
A17	(P)tS—ALIPHATIC CARBOXYLATE(C ₁₀ —C ₂₆ , NON-ESTERIFIED), substance concentration	0.58 mmol/l	
A18	dF—ALIPHATIC CARBOXYLATE(C ₁₀ —C ₂₆ , NON-ESTERIFIED + ESTERS), amount of substance	15 mmol	L11
A19	(P)tS—ALIPHATIC CARBOXYLATE(C ₁₀ —C ₂₆ , NON-ESTERIFIED + ESTERS), substance concentration	11.1 mmol/l	
A20	S—ALKALINE PHOSPHATASE, catalytic activity concentration(method)	? kat/l	
A21	(P)tS—AMINO ACID-NITROGEN, substance concentration	3.0 mmol/l	N08
A22	dU—δ-AMINOLEVULINATE, amount of substance	4.3 μmol	Note 1
A23	S—δ -AMINOLEVULINATE, substance concentration	1.2 μmol/l	Note 1
A24	S—AMINOPEPTIDASE(CYTOSOL), catalytic activity concentration(method)	? kat/l	Note 2
A25	dU—AMMONIUM ION, amount of substance	51 mmol	
A26	P—AMMONIUM ION, substance concentration	30 μmol/l	
A27	Rectal mucus—AMOEBA, arbitrary number catalytic activity concentration(method; 0—1)	0 arb. unit	
A28	U—α-AMYLASE, arbitrary catalytic activity concentration(method)	? arb. unit	
A29	S—α-AMYLASE, catalytic activity concentration(method)	? kat/l	
A30	S—ANION(A ⁻), substance concentration	155 mmol/l	
A31	S—ANTITHROMBIN III, arbitrary substance concentration(method)	? arb. unit	
A32	S—α ₁ -ANTITRYPSIN, arbitrary substance concentration(method)	? arb. unit	
A33	(P)tS—ASCORBATE, substance concentration	55 μmol/l	
A34	S—ASPARTATE AMINOTRANSFERASE, catalytic activity concentration(method)	? kat/l	

Note 1. The component is also called 4-Oxo-5-aminopentanoate.

Note 2. EC 3.4.11.1; the component was formerly called leucine aminopeptidase.

Ser. No.	System—Component(specifications), kind of quantity(specifications) =	Number · Unit	Ref.
B01	U—BACTERIA, arbitrary number concentration(method; 0—1)	0	arb. unit
B02	U—BACTERIA(LIVING), number concentration(method)	10	$10^6/l$
B03	S—BARBITURATES, arbitrary substance concentration(method)	0	arb. unit
B04	aB—BASE(H ⁺ -BINDING GROUPS), substance concentration(Singer and Hastings 1948)	45	mmol/l
B05	aB—BASE(H ⁺ -BINDING GROUPS), substance concentration difference(method; Pt—Norm)	0,0	mmol/l
B06	Erythrocytes—BASOPHIL PUNCTATED ERYTHROCYTES, number fraction	0,20	10^{-3}
B07	B—BASOPHILOCYTES, number concentration	0,12	$10^9/l$
B08	(B)Leukocytes—BASOPHILOCYTES, number fraction	0,01	1
B09	S—BILIRUBIN, substance concentration	4	$\mu\text{mol}/l$
B10	(S)Bilirubins—BILIRUBIN ESTER, substance fraction(method)	0,5	1
B11	S—BILIRUBIN ESTER, substance concentration	5	$\mu\text{mol}/l$
B12	U—BILIRUBINS, arbitrary substance concentration(method; 0—1)	0	arb. unit
B13	S—BILIRUBINS(NON-ESTERIFIED + ESTERS), substance concentration	9	$\mu\text{mol}/l$
B14	F—BLOOD, arbitrary volume fraction(method; 0—4)	0	arb. unit
B15	Pt—BLOOD, volume	4,90	1
B16	Pt—BLOOD, volume content(method)	70	ml/kg
B17	Pt—BLOOD(ARTERIAL, DIASTOLIC), pressure(method)	10,4	kPa
B18	Pt—BLOOD(ARTERIAL, SYSTOLIC), pressure(method)	15,6	kPa
B19	B—BLOOD COAGULUM LYSIS, time(method)	?	s
B20	S—BROMIDE, substance concentration	0,0	mmol/l
C01	dF—CALCIUM(II) (Ca), amount of substance	16	mmol
C02	dU—CALCIUM(II) (Ca), amount of substance	5,2	mmol
C03	dU,U—CALCIUM(II) (Ca), substance concentration	4,3	mmol/l
C04	S—CALCIUM(II) (Ca), substance concentration	2,5	mmol/l
C05	S—CALCIUM(II) (Ca, CHELATE, <1000), substance concentration	0,017	mmol/l
C06	S—CALCIUM(II) ION(Ca, NON-CHELATE), substance concentration	1,3	mmol/l
C07	S—CALCIUM(II) (Ca, PROTEIN BOUND), substance concentration	1,1	mmol/l
C08	S—CALCIUM(II) (Ca, TOTAL), substance concentration	2,5	mmol/l
C09	Pt—CAPILLARY BLEEDING, time(method)	0,15	ks
C10	dU—CARBAMIDE, amount of substance	0,48	mol
C11	dU—CARBAMIDE, substance concentration	0,40	mol/l
C12	S—CARBAMIDE, substance concentration	4,1	mmol/l
C13	Gas(aB equilibrated)—CARBON DIOXIDE, partial pressure(method; 37,0 °C)	5,4	kPa
C14	(aB)P—CARBON DIOXIDE, substance concentration	1,2	mmol/l
C15	Expiratory gas—CARBON DIOXIDE, volume fraction	0,05	1
C16	(B)Hemoglobin—CARBON MONOXIDE HEMOGLOBIN, substance fraction	0,01	1
C17	B—CARBON MONOXIDE HEMOGLOBIN(Fe), substance concentration	0,08	mmol/l
C18	P—CARBONATE + CARBON DIOXIDE, substance concentration	27,5	mmol/l
C19	U—CASTS, arbitrary number concentration(method; 0—1)	0	arb. unit

C20	U-CASTS, number(Addis 1949; 12 h, night)	5	10^3
C21	F-CATALASE, arbitrary catalytic activity concentration(method; 0-1)	0	arb. unit
C22	S-CATION(B^+), substance concentration	155	$\mu\text{mol/l}$
C23	S-CELLS, number	2	$10^6/\text{l}$
C24	S-CERULOPLASMIN(150 000), substance concentration	1,6	$\mu\text{mol/l}$
C25	dU-U-CHLORIDE, amount of substance	165	mmol
C26	dU-U-CHLORIDE, substance concentration	138	mmol/l
C27	S-CHLORIDE, substance concentration	103	mmol/l
C28	S-CHESTEROL, substance concentration	—	arb. unit
C29	S-CHESTEROL(NON-ESTERIFIED), substance concentration	1,7	$\mu\text{mol/l}$
C30	S-CHESTEROLS, substance concentration	1,7	$\mu\text{mol/l}$
C31	S-CHESTERYL ESTER, substance concentration	6,2	mmol/l
C32	nU-U-CHORIONGONADOTROPIN, arbitrary substance concentration(method; 0-1)	4,5	mmol/l
C33	S-CITRATE, substance concentration	115	$\mu\text{mol/l}$
C34	B-COAGULATION, time(method)	?	ks
C35	P-COAGULATION FACTORS(I + II + V + VII + X), arbitrary time(Quick 1935)	21	arb. unit
C36	P-COAGULATION FACTORS(I + VII + X), relative arbitrary substance concentration(method; Pt/Norm)	1,00	1
C37	S-COBALAMIN(Co), substance concentration(method)	350	pmol/l
C38	S-COPPER(II), substance concentration	18	$\mu\text{mol/l}$
C39	dU-U-COPROPORPHYRINS(I + III), amount of substance	0,23	μmol
C40	P-CORTICOSTERONE, substance concentration	17	nmol/l
C41	P-CORTISOL, substance concentration	400	nmol/l
C42	P-CORTISONE, substance concentration	32	nmol/l
C43	dU-U-CREATINE, amount of substance	80	μmol
C44	dU,U-U-CREATINE, substance concentration	67	$\mu\text{mol/l}$
C45	S-CREATINE, substance concentration	40	$\mu\text{mol/l}$
C46	S-CREATINE KINASE, catalytic activity concentration(method)	?	kat/l
C47	dU-U-CREATININUM, amount of substance	19,5	mmol
C48	dU,U-U-CREATININUM, substance concentration	16,3	mmol/l
C49	S-CREATININUM, substance concentration	0,07	mmol/l
C50	S-CRYOGLOBULIN, arbitrary substance concentration(method; 0-1)	0	arb. unit
D01	P-11-DEOXYCORTISOL, substance concentration	8	nmol/l
D02	dU-2,5-DIHYDROXYPHENYLACETATE, amount of substance	0,0	mmol
D03	Gas(aB equilibrated)-DIOXYGEN, partial pressure(method; 37,0 ° C)	13,0	kPa
D04	(aB)P-DIOXYGEN, substance concentration	0,13	mmol/l
D05	fPt-DIOXYGEN(ABSORBED), relative substance rate(testing; Pt/Norm)	1,00	1

Note 3. The numerical values equal those of 'S-Barbiturates, substance concentration', but measurement is performed as if the barbiturate(s) present were allylpropynal(NFN), hence 'arbitrary'.

Note 4. The 'concentration' of blood is sought even if its hemoglobin is used as a marker in the method.

Note 5. This type of quantity equals C28, but the former may be used together with C31 for emphasis.

Ser. No.	System—Component(specifications), kind of quantity(specifications) =	Number · Unit	Ref.
E01	B—EOSINOPHILOCYTES, number concentration (B)Leukocytes—EOSINOPHILOCYTES, number fraction	0,22 0,02 1	$10^9/l$ arb. unit
E02	U—EPITHELIAL CELLS, arbitrary number concentration(method; 0—3)	7,5	μm
E03	(B)Erythrocyte(means)—ERYTHROCYTE, diameter	88	fl
E04	(B)Erythrocyte(means)—ERYTHROCYTE, volume	115	d
E05	(B)Erythrocyte(means)—ERYTHROCYTE, volume	1	arb. unit
E06	U—ERYTHROCYTES, arbitrary number concentration(method; 0—3)	0,7 5,00	$10^6/l$ $10^{12}/l$
E07	nU—ERYTHROCYTES, number(Addis 1949; 12 h, night)	0	$10^6/l$
E08	nU—ERYTHROCYTES, number concentration	0,47	1
E09	B—ERYTHROCYTES, number concentration	0,035	μmol
E10	Sf—ERYTHROCYTES, number concentration	0,082	μmol
E11	B—ERYTHROCYTES, volume fraction	0,030	μmol
E12	GU—ESTRADIOL, amount of substance(female Pt, ovulation peak)	0,019	μmol
E13	GU—ESTRIOL, amount of substance(female Pt, ovulation peak)	0,0	$mmol/l$
E14	GU—ESTROGEN, amount of substance(postmenopausal Pt)	8,8	$\mu mol/l$
E15	GU—ESTRONE, amount of substance(male Pt)	?	s
E16	B—ETHANOL, substance concentration	1,6	ml/s
F01	P—FIBRINOLOGYSIS, time(method)	40	$\mu mol/l$
F02	Glomeruli—FLUID(FILTERED), mean volume rate/creatininum; 1d)	1	$nmol/l$
F03	Tap water—FLUORIDE, substance concentration	0,00	$nmol/l$
F04	(B)Hemoglobin—FOETAL HEMOGLOBIN, substance fraction	26	$\mu mol/l$
F05	(fP)S—FOLATES, substance concentration(method)	100	
F06	U—FORMIMINOGLUTAMATE, amount of substance (after L-histidine, amount of substance = 97 mmol;		
F07	32,4 ks)		
F08	S—FREEZING-POINT DEPRESSION, temperature difference	545	mK
F09	S—FRUCTOSE-BIPHOSPHATE ALDOLASE, catalytic activity concentration(method)	?	kat/l
G01	(B)Erythrocyte(means)—GALACTOSE-1-PHOSPHATE URIDYLTRANSFERASE, catalytic activity(method)	?	kat
G02	S— α_1 -GLOBULIN, arbitrary concentration	2,0	arb. unit
G03	S— α_2 -GLOBULIN, arbitrary concentration	5,0	arb. unit
G04	S— β_1 -GLOBULIN, arbitrary concentration	3,0	arb. unit
G05	S— β_2 -GLOBULIN, arbitrary concentration	3,0	arb. unit
G06	S— γ -GLOBULIN, arbitrary concentration	8,5	arb. unit
G07	Sf—GLOBULIN, arbitrary substance concentration(method; 0—1)	0	arb. unit
G08	S—GLOBULIN, mass concentration	22	g/l
G09	dU—GLUCOSE, amount of substance	2,3	$mmol$
G10	U—GLUCOSE, arbitrary substance concentration(Clinistix ®; 0—1)	0	arb. unit
G11	(fP)P—GLUCOSE, substance concentration	5,6	$mmol/l$
G12	Sf—GLUCOSE, substance concentration	2,8	$mmol/l$

G13	U—GLUCOSE, substance concentration	1,9	mmol/l
G14	(B)Erythrocyte(mean)—GLUCOSE-6-PHOSPHATE DEHYDROGENASE, catalytic activity(method; 0—3)	?	kat
H01	S— α_2 -HAPTOGLOBIN, arbitrary substance concentration(hemoglobin binding)	2	arb. unit
H02	Pt—height	7,5	$\mu\text{mol/l}$
H03	F—HELMINTES EGGS, arbitrary number concentration(method; 0—3)	1,70	m
H04	(B)Hemoglobin—HEMIGLOBIN, arbitrary substance concentration(method; 0—1)	0	arb. unit
H05	F—HEMOGLOBIN, arbitrary substance concentration(method; 0—1)	0,01	1
H06	U—HEMOGLOBIN, arbitrary substance concentration(method; 0—1)	0	arb. unit
H07	(B)Erythrocyte(mean)—HEMOGLOBIN(Fe), amount of substance	2,0	arb. unit
H08	(B)Erythrocyte(mean)—HEMOGLOBIN(Fe), substance concentration	21	fmol
H09	P—HEMOGLOBIN(Fe), substance concentration	10	$\mu\text{mol/l}$
H10	B—HEMOGLOBIN(Fe), substance concentration	9,6	mmol/l
H11	S— β_2 -HEMOPEXIN, arbitrary substance concentration(method; 0—3)	2	arb. unit
H12	U—HOMOGENITASATE, arbitrary substance concentration(method; 0—1)	0	arb. unit
H13	P—HYDROGEN CARBONATE ION, substance concentration(blood; $c(\text{CO}_2) = 0,21 \text{ mmol/l}$; $c(\text{CO}_2) = 1,19$)	23,6	mmol/l
H14	mmol/l; $\theta = 37^\circ \text{C}$		
H15	(aBP)—HYDROGEN ION, substance concentration	39,6	mmol/l
H16	P—3-HYDROXYBUTYRATE, substance concentration	10	$\mu\text{mol/l}$
H17	S—2-HYDROXYCORTICOSTEROID, catalytic activity concentration(method)	?	kat/l
H18	dU—17-HYDROXYCORTICOSTEROID, amount of substance(method)	0,42	mmol
H19	P—11-HYDROXYCORTICOSTEROID, substance concentration	0,42	$\mu\text{mol/l}$
H20	dU—5-HYDROXYINDOLYL ACETATE, amount of substance	30	pmol
H21	dU—4-HYDROXY-3-METHOXYMANDLEATE, amount of substance	25	nmol
H22	dU—HYDROXYPROLINE, amount of substance	0,16	10^3 int. unit/l
101	S—IMMUNOGLOBULIN A, arbitrary substance concentration(method)	105	10^3 int. unit/l
102	S—IMMUNOGLOBULIN G, arbitrary substance concentration(method)	120	10^3 int. unit/l
103	S—IMMUNOGLOBULIN M, arbitrary substance concentration(method)	97	10^3 int. unit/l
104	S—INSULIN, arbitrary substance concentration(method)	25	10^{-3} int. unit/l
105	S—INSULIN(5800), substance concentration(method)	183	pmol/l
106	S—IODINE(I, PROTEIN BOUND), substance concentration	0,41	$\mu\text{mol/l}$
107	S—I-ION($A^- + B^+$), substance concentration	310	$\mu\text{mol/l}$
108	dU—I-IRON(II + III), amount of substance	2,3	μmol
109	dU,I-IRON(II + III), substance concentration	1,9	$\mu\text{mol/l}$
110	(RPt)S—I-IRON(II + III)(IN HEMOGLOBIN AND TRANSFERRIN), substance concentration	33	$\mu\text{mol/l}$
111	(RPt)S—I-IRON(III)(TRANSFERRIN BOUND), substance concentration	23,6	$\mu\text{mol/l}$
L01	S—LACTATE, substance concentration	0,50	mmol/l
L02	S—LACTATE DEHYDROGENASE, catalytic activity concentration(method)	?	kat/l
L03	dU—I-LEAD(II), amount of substance	0,07	μmol
L04	B—I-LEAD(II), substance concentration	1,2	$\mu\text{mol/l}$

Note 6. An alternative is 'Pt—PATIENT, height' or 'Pt—BODY, height'.

Ser. No.	System—Component(specifications), kind of quantity(specifications) =	Number · Unit	Ref.
L05	dU U—LEAD(II), substance concentration	0,06 µmol/l	
L06	U—LEUKOCYTES, arbitrary number concentration(method; 0—3)	1 arb. unit	
L07	B—LEUKOCYTES, number concentration	6,5 10 ⁹ /l	
L08	Sf—LEUKOCYTES, number concentration	1 10 ⁶ /l	
L09	U—LEUKOCYTES + EPITHELIAL CELLS, number(Addis 1949; 12 h, night)	2,0 10 ⁶	
L10	F—LIPID, arbitrary volume fraction(method; 0—1)	0 arb. unit	
L11	df—LIPID, mass(method)	4,0 g	A18
L12	(Pt)s—LIPID, mass concentration(method; 0—3)	6,7 g/l	
L13	S—α ₁ -LIPOPROTEIN, arbitrary substance concentration(method; 0—3)	2 arb. unit	
L14	S—α ₂ -LIPOPROTEIN, arbitrary substance concentration(method; 0—3)	2 arb. unit	
L15	S—β-LIPOPROTEIN, arbitrary substance concentration(method; 0—3)	2 arb. unit	
L16	B—LYMPHOCYTES, number concentration	2,0 10 ⁹ /l	
L17	(B)Leukocytes—LYMPHOCYTES, number fraction	0,30 1	
M01	S—α ₂ -MACROGLOBULIN, arbitrary substance concentration(method; 0—3)	2 arb. unit	
M02	df—MAGNESIUM(II)(MG), amount of substance	7,2 mmol	
M03	dU—MAGNESIUM(II)(MG), amount of substance	2,6 mmol	
M04	dU—MAGNESIUM(II)(MG), substance concentration	2,2 mmol/l	M08
M05	S—MAGNESIUM(II)(MG), substance concentration	1,0 mmol/l	
M06	S—MAGNESIUM(II)(MG, CHELATE, <1000), substance concentration	0,13 mmol/l	
M07	S—MAGNESIUM(II)(MG, PROTEIN BOUND), substance concentration	0,30 mmol/l	
M08	S—MAGNESIUM(II)(MG, TOTAL), substance concentration	1,0 mmol/l	M05
M09	S—MAGNESIUM(II) ION (MG, NON-CHELATE), substance concentration	0,57 mmol/l	
M10	Pt—mass	70,0 kg	Note 7
M11	U—MELANIN + MELANOGEN, arbitrary substance concentration(method; 0—1)	0 arb. unit	
M12	U—METHYLKETONE, arbitrary substance concentration(Acetest®, 0—1)	0,50 10 ⁹ /l	
M13	B—MONOCYTES, number concentration	0,05 1	
M14	(B)Leukocytes—MONOCYTES, number fraction	0,75 g/l	
M15	S—MUCOPROTEIN, mass concentration(method)	0 arb. unit	
M16	Expectorate— <i>Myobacterium sp.</i> , arbitrary number concentration(method; 0—1)	0 arb. unit	
N01	Urethral secretion— <i>Neisseria sp.</i> , arbitrary number concentration(method; 0—1)	0 arb. unit	
N02	B—NEUTROPHILOCYTES(NON-SEGMENTED), number concentration	0,20 10 ⁹ /l	
N03	(B)Leukocytes—NEUTROPHILOCYTES(NON-SEGMENTED), number fraction	0,02 1	
N04	B—NEUTROPHILOCYTES(SEGMENTED), number concentration	6,5 10 ⁹ /l	
N05	(B)Leukocytes—NEUTROPHILOCYTES(SEGMENTED), number fraction	0,65 1	
N06	df—NITROGEN, amount of substance	70 mmol	
N07	dU—NITROGEN, amount of substance	1,10 mol	A21
N08	(Pt)s—NITROGEN(AMINO ACID), substance concentration	3,0 mmol/l	
N09	S—NITROGEN(NON-PROTEIN), substance concentration	19 nmol/l	

001	S—ORNITHINE CARBAMOYLTRANSFERASE, catalytic activity concentration(method)	?	2
002	S— α_1 -OROSOMUCOID, arbitrary substance concentration(method; 0—3)	2	kat/l
003	(B)Erythrocytes—OSMOTIC PRESSURE REACTION, arbitrary pressure(method)	140	arb. unit
004	dU—OXALATE, amount of substance	0,30	mmol
005	dU—17-OXOSTEROID, amount of substance(method)	44	μ mol
006	(aB)Hemoglobin—OXYHEMOGLOBIN, substance fraction(method)	0,95	1
P01	U—PHENYL PYRUVATE, arbitrary substance concentration(method; 0—1)	0	arb. unit
P02	dU,U—PHOSPHATE(P), amount of substance	35	mmol
P03	dU,U—PHOSPHATE(P), substance concentration	29	mmol/l
P04	S—PHOSPHATE(P, NON-ESTERIFIED), substance concentration	1,3	mmol/l
P05	S—PHOSPHOLIPID(P), substance concentration	2,75	mmol/l
P06	aB—PLASMA, pH(37,0 °C)	7,41	1
P07	Pt—PLASMA, volume	2,50	1
P08	B—PLATULOCYTES, number concentration	225	$10^9/l$
P09	U—PORPHOBILINOGEN, arbitrary substance concentration(method; 0—1)	0	arb. unit
P10	U—PORPHYRINS, arbitrary substance concentration(method)	?	arb. unit
P11	dU—POTASSIUM ION, amount of substance	69	mmol
P12	dU,U—POTASSIUM ION, substance concentration	58	mmol/l
P13	Erythrocytes—POTASSIUM ION, substance concentration	90	mmol/l
P14	P,S—POTASSIUM ION, substance concentration	4,3	mmol/l
P15	dU—PREGNANDIOL, amount of substance	10	μ mol
P16	dU—PREGNANTRIOL, amount of substance	12	μ mol
P17	U—PROTEIN, arbitrary substance concentration(Albustix®; 0—1)	0	arb. unit
P18	U—PROTEIN, arbitrary substance concentration(Bence Jones 1948; 0—1)	0	arb. unit
P19	dU—PROTEIN, mass(method)	60	mg
P20	S—PROTEIN, mass concentration(method)	71	g/l
P21	Sf—PROTEIN, mass concentration(method)	0,30	g/l
P22	U—PROTEIN, mass concentration(method)	0,05	g/l
P23	Pt—PULSE, frequency (30 s)	1,20	Hz
R01	Pt—RECTUM, Celsius temperature	36,9	°C
R02	Pt—RECTUM, thermodynamic temperature	310,1	K
R03	Pt—RESPIRATION, frequency(60 s)	0,20	Hz
R04	B—RETICULOCYTES, number concentration	30	$10^9/l$
R05	(B)Erythrocytes—RETICULOCYTES, number fraction	6	10^{-3}
S01	U—SACCHARIDE, arbitrary substance concentration(Fehling; 0—1)	0	arb. unit
S02	B—SEDIMENTATION REACTION, arbitrary length(method)	5	arb. unit
S03	dU—SODIUM ION, amount of substance	200	mmol
S04	dU,U—SODIUM ION, substance concentration	167	mmol/l
S05	P,S—SODIUM ION, substance concentration	141	mmol/l
S06	P—SOMATOTROPINE, substance concentration	0,11	nmol/l
S07	(B)Hemoglobin—SULPHHEMOGLOBIN, substance fraction	0,01	1
S08	Pt—SULPHOBROMPHTHALEINATE, relative amount of substance(Pt 2,7 ks/Pt 0 ks; method)	0,03	1

Note 7. An alternative is 'Pt—PATIENT, mass' or 'Pt—BODY, mass'.

Ser. No.	System—Component(specifications), kind of quantity(specifications) =	Ref.	Number · Unit
T01	dU—TESTOSTERONE, amount of substance(male Pt)		0,25 µmol
T02	S—TESTOSTERONE, substance concentration(male Pt)		22 nmol/l
T03	(fPt)S—THYMOL REACTION, arbitrary substance concentration(Maclagan 1944; 0, 1, 2...)		0 arb. unit
T04	S—THYROXIN, substance concentration(method)		102 nmol/l
T05	S— β_1 -TRANSFERRIN, arbitrary substance concentration(method; 0—3)		2 arb. unit
T06	(fPt)S—TRANSFERRIN(74 000), substance concentration		30,8 µmol/l
T07	(fPt)S—TRIACYLGLYCEROL LIPASE(ATOXYL® RESISTANT), catalytic activity concentration(method)	Note 8 ?	kat/l
T08	(fPt)S—TRIACYLGLYCEROL LIPASE(QUININIUM RESISTANT), catalytic activity concentration(method)	Note 8 ?	kat/l
T09	S—TRIGLYCERIDE, substance concentration(method)		0,75 mmol/l
T10	(fPt)S—TRIIODOTHYRONINE REACTION, arbitrary substance concentration(method)		0 arb. unit
T11	F—TRYPSIN, arbitrary catalytic activity concentration(method; 0—1)		0 arb. unit
U01	dU—URATE, amount of substance		2,90 mmol
U02	(U)Concrement—URATE, arbitrary substance content(murexide; 0—1)		1 arb. unit
U03	dU, U—URATE, substance concentration(method)		2,42 mmol/l
U04	S—URATE, substance concentration(method)		0,28 mmol/l
U05	Pt—URINE, mass density(20,0 ° C)		1,019 kg/l
U06	Pt—URINE, pH(indicator paper)		6,3 1
U07	Pt—URINE, relative density(U 20,0 ° C/Water 20,0 ° C)		1,020 1
U08	dPt—URINE, volume		1,20 1
U09	U—UROBILIN, arbitrary substance concentration(method)		10 arb. unit
U10	(fPt)U—UROBILINOGEN, arbitrary substance concentration(method; 0—1)		0 arb. unit
U11	dU—UROPORPHYRINS(I + III), amount of substance		10 nmol

Note 8. EC 3.1.1.3; the component (without specification) was formerly called lipase.

10. Index

Acetone bodies	M12	Ehrlich's reaction	≡U10
Acid fast bacilli	M16	Enzyme, cf. IUPAC—IUB(1972)	
A/G ratio	≡A13	Recommended Name	
ALA	A09, A22, A23	Eosinophil count	E01, E02
Albumen, cf. Protein		Erythrocyte count	≡E09
Albumin (per cent)	A10, A11, A14, A15	Erythrocyte sedimentation rate	≡S02
Albumin per cent	A12, A13	ESR	≡S02
Aldolase	F09	Excretion, cf. Component name	
Alkali reserve	≡C18		
Alkali-stable hemoglobin	≡F05	Faecal, cf. Component name	
Alkapton	≡H13	Fasting, cf. Component name	
Alpha-component name cf. α-Component name		Fat, cf. Lipid in this Index	
Alpha-hydroxybutyric dehydrogenase	H17	Fatty acids	A17, A18, A19
Amino acid, analogously to	H22	FFA	A17
Ammonia	A25, A26	FIGLU	F07
		Folic acid	F06
		Free fatty acids	A17
B ₁₂	C37		
Basal metabolic rate	D05	Gerhardt's reaction	M12
Base excess	≡B05	GFR	F03
BB	≡B04	Glomerular filtration rate	F03
BE	≡B05	Glutamic-alanine transaminase	A09
Bence Jones protein	P18	Glutamic-aspartic transaminase	A34
Benzidine reaction	B14, H06, H07	Glutamic-oxaloacetic transaminase	A34
Bicarbonate	H14	Glutamic-pyruvic transaminase	A09
Bleeding time	≡C09	Gmelin's reaction	B12
Blood, cf. Component name		Gonococci	N01
Blood content	≡B16	GOT	A34
Blood per cent	H11	GPT	A09
Blood pressure	B17, B18		
Blood urea	C12	Halometry	≡E04
BMR	D05	HBD(H)	H17
Body temperature	R01, R02	Hematocrit	≡E11
Bromsulphthalein	S08	Hemoglobin	≡F05
BSP	S08	5-HIAA	H20
Buffer base	≡B04	Hormone, cf. Chemical name	
BUN	C12	Ig, cf. Immunoglobulin	
Catecholamines	A07, A08	Ketone bodies	M12
Chlorine, cf. Chloride		Ketosteroid	≡O05
Citric acid	C33		
CO, cf. Carbon monoxide		LAP	A24
Colorimetric index	≡H08	LDH	L02
Concentration, cf. Component name		Legal's reaction	M12
CPK	C46	Leucine aminopeptidase	A24
Creatinine, cf. Creatininium		Leukocyte count	≡L07
Creatinine clearance	F03		L08
Delta-component name, cf. δ-Component name		Lipase	T07, T08
Density	U05, U07	Lipid	A18, A19, L10, L11, L12
Differential count, cf. Component name		MCD	≡E04
Diuresis	U08	MCH	≡H08
		MCHC	≡H09
		MCV	≡E05

Mean cell, cf. MC in this Index		Reticulocyte count	R04, R05
Metabolic rate	D05	Saturation index	≡H09
Methemoglobin	H05	Sediment count, cf. Component name	
NEFA	A17	Sedimentation reaction	≡S02
Net acid	≡A04	Serum, cf. Component name	
Non protein nitrogen	≡N09	SGOT	A34
NPN	≡N09	SGPT	A09
Osmolality	F08	Specific gravity	U07, U05
Osmolarity	I07	Specific weight	U05, U07
Osmotic fragility test	≡O03	Standard bicarbonate	≡H14
Osmotic resistance	≡O03	Sugar, cf. Chemical component name	
Oxygen, cf. Dioxygen	≡O06	T ₃	T10
Oxygen saturation	D03, D04	T ₄	T04
Packed cell volume	≡E11	TB	M16
PBI	I06	Thrombocyte count	≡P08
pCO ₂	≡C13	Thymol turbidity	≡T03
PCV	C14	TIBC	T06
pH	≡E11	Total, cf. Component name	
Phosphorus, cf. Phosphate	P06, U06	Total carbon dioxide	≡C18
Plasma, cf. Component name		Total iron binding capacity	T06
Platelet count	≡P08	TWBC	≡L07
pO ₂	≡D03	Urea, cf. Carbamide	
P-P	D04	Uric acid, cf. Urate	
Protein bound iodine	≡C36	Urinary, cf. Component name	
Prothrombin	I06	Vanillylmandelic acid	H21
C35, C36	Vitamin, cf. Chemical name		
Quick time	≡C35	Vitamin B-12	C37
Red cell count	≡E09	Vitamin C	A33
		VMA	H21
		Volumetric index	≡E11
		Weighth, cf. Mass	
		White cell count	≡L07
			L08

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