



12174324001V12.0

# Precipath U plus

cobas®

REF 12149443 122

→ 10 x 3 mL Control

## English

### System information

For use on Roche/Hitachi MODULAR and **cobas c** analyzers the control code is 301.

For use on COBAS INTEGRA analyzers the system ID is 07 8000 6.

### Intended use

Precipath U plus is for use in quality control by monitoring accuracy and precision for the quantitative methods as specified in the value sheets.

### Summary

Precipath U plus is a lyophilized control based on human serum. The adjusted concentrations and activities of the control components are usually in the pathological range or at the normal/pathological threshold.

Some methods specified in the relevant value sheet may not be available in all countries.

### Reagents – working solutions

#### Reactive components in the lyophilizate:

Human serum with chemical additives and material of biological origin as specified.

The origin of the biological additives is as follows:

Analyte	Origin
ALT (GPT)	porcine heart
AST (GOT)	porcine heart
Aldolase	rabbit muscle
Alkaline phosphatase	placenta (human, recombinant)
Amylase, total	human saliva / porcine pancreas
Amylase, pancreatic	porcine pancreas
Cholesterol	bovine plasma
Creatine kinase	rabbit muscle
γ-GT	porcine, kidney
GLDH	bacterial, recombinant
LD (LDH)	porcine heart
Lipase	pancreas (human, recombinant)
Acid phosphatase	human prostate / potato
Transferrin	human Cohn IV-fraction

#### Non-reactive components:

##### Stabilizers

#### Reactive components in the diluent:

##### Sodium carbonate

The concentrations and activities of the components are lot-specific. The exact target values are given in the electronically available or enclosed value sheets.

The values are also encoded in the enclosed control barcode sheets for Roche/Hitachi MODULAR, COBAS INTEGRA and **cobas c** 111 analyzers.

For the **cobas c** analyzers (except for the **cobas c** 111 analyzer) the values are encoded in electronic files sent via the **cobas** link to the analyzers.

### Target values and ranges

The target values were determined using the method stated in the electronically available or enclosed value sheets. Determinations for Roche methods were performed under strictly standardized conditions on Roche analyzers using Roche system reagents and the Roche master calibrator. The target value specified is the mean of all values obtained. The corresponding control range is calculated as the target value  $\pm$  3 standard deviations (the standard deviation being the value obtained from several target value determinations). Results should be within the defined ranges. Each laboratory should establish corrective measures to be taken if values fall outside the range.

A clinically insignificant difference may be seen between the value(s) listed on the value sheet and the value(s) obtained from the instrument readable data. This is caused by:

- the rounding of value(s) during conversion from the unit in the instrument readable data to the unit that is being used.
- the calculation of the ranges by the analyzer using the percentage values for the ranges encoded in the barcodes.

The traceability of the target value is given in the respective Method Sheets for the system reagents to be used in combination with the recommended calibrator.

### Precautions and warnings

For in vitro diagnostic use.

Exercise the normal precautions required for handling all laboratory reagents.

Disposal of all waste material should be in accordance with local guidelines. Safety data sheet available for professional user on request.

All human material should be considered potentially infectious. All products derived from human blood are prepared exclusively from the blood of donors tested individually and shown to be free from HBsAg and antibodies to HCV and HIV.

The testing methods applied were FDA-approved or cleared in compliance with the European Directive 98/79/EC, Annex II, List A.

However, as no testing method can rule out the potential risk of infection with absolute certainty, the material should be handled with the same level of care as a patient specimen. In the event of exposure, the directives of the responsible health authorities should be followed.<sup>1,2</sup>

### Handling

Carefully open one bottle 1, avoiding the loss of lyophilizate, and pipette in exactly 3.0 mL of diluent (bottle 2). Carefully close the bottle and dissolve the contents completely by occasional gentle swirling within 30 minutes. Avoid the formation of foam.

**Important:** When determining **acid phosphatase** and **prostatic phosphatase** dissolve the lyophilizate (bottle 1) with 3.0 mL of **distilled or deionized water**.

The enclosed barcoded labels are intended exclusively for the Roche/Hitachi MODULAR analyzers and **cobas c** systems to identify the control. Attach the barcoded labels to the tubes carrying the sample cups containing the control material.

### Storage and stability

Store at 2-8 °C.

Criterion for the stability data stated by Roche:

Recovery within  $\pm$  10 % of initial value.

Stability of the lyophilized control serum:

Up to the stated expiration date at 2-8 °C.

Stability of components in reconstituted control\*:

at	15-25 °C	12 hours
at	2-8 °C	5 days
at	(-15)-(-25) °C	28 days (when frozen once)

\*Exceptions: see below

Stability of bicarbonate in reconstituted control serum:

closed bottle	at 15-25 °C	1 day
open bottle	at 15-25 °C	1 hour

Stability of total bilirubin in reconstituted control serum (stored protected from light):

at	15-25 °C	8 hours
at	2-8 °C	24 hours
at	(-15)-(-25) °C	14 days (when frozen once)

Stability of direct bilirubin in reconstituted control serum (stored protected from light):



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at	15-25 °C	4 hours
at	2-8 °C	8 hours
at	(-15)-(-25) °C	14 days (when frozen once)

Stability of UIBC in reconstituted control serum:

at	15-25 °C	4 hours
at	2-8 °C	1 day
at	(-15)-(-25) °C	14 days (when frozen once)

Stability of acid phosphatase and prostatic acid phosphatase in reconstituted control serum:

at	15-25 °C	4 hours
at	2-8 °C	1 day
at	(-15)-(-25) °C	14 days (when frozen once)

Store control tightly capped and protected from light when not in use.

## Materials provided

- See "Reagents – working solutions" section
- Barcoded labels

## Materials required (but not provided)

- Roche system reagents and clinical chemistry analyzers
- General laboratory equipment

## Assay

Dispense the required volume into a sample cup and analyze in the same way as patient samples.

The controls should be run daily in parallel with patient samples and after every calibration. Control intervals must be adapted to individual laboratory's requirements.

Follow the applicable government regulations and local guidelines for quality control.



## References

- 1 Occupational Safety and Health Standards: Bloodborne pathogens. (29 CFR Part 1910.1030). Fed. Register.
- 2 Directive 2000/54/EC of the European Parliament and Council of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work.

A point (period/stop) is always used in this Method Sheet as the decimal separator to mark the border between the integral and the fractional parts of a decimal numeral. Separators for thousands are not used.

## Symbols

Roche Diagnostics uses the following symbols and signs in addition to those listed in the ISO 15223-1 standard.

	Contents of kit
	Volume after reconstitution or mixing

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Significant additions or changes are indicated by a change bar in the margin.

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