Roche

Addendum 2.0

to Operator´s Manual Version 8.1
cobas® *6000 analyzer series*
Software Versions 05–02 / 06–02

Document information

	Document version	Software version	Revision date	Changes
Revision history	Addendum 2.0 to Operator's Manual Version 8.1	06-02[a]	February 2018	

(a) Also valid for software version 05-02 and 06-01

Edition notice   This addendum contains supplementary information for operators of the **cobas** 6000 analyzer series. It is meant to complement the Operator´s Manual Version 8.1.

Every effort has been made to ensure that all the information is correct at the time of publishing. However, Roche Diagnostics reserves the right to make any changes necessary without notice as part of ongoing product development.

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Addendum

In this addendum

General

This addendum includes changes concerning the specification of a safety precaution in the section *Correct alignment of sample tubes on a rack.*

👁 *Correct alignment of sample tubes on a rack* on page 6

Trays, racks, tubes, and cups

The section *Correct alignment of sample tubes on a rack* contains the following changes:

- The specification of the safety precaution about the tube alignment has been changed to WARNING.

Racks

For the **cobas** 6000, different rack types and classes are available. This chapter explains all rack details.

Correct alignment of sample tubes on a rack

Take special care to place sample tubes correctly on the rack. This is especially important for 13 mm tubes which are narrower and more likely to tilt if placed incorrectly. If the tubes are not correctly seated in an upright position on the rack, the sample probe may attempt to sample outside the tube. Or the sample probe may hit the side of the tube, causing errors and incorrect results.

> ⚠ **WARNING**
>
> **Incorrect results when sample tubes are not aligned vertically**
>
> Incorrect placement of sample tubes in racks may cause incorrect sample pipetting, which may lead to false low results, especially when testing immunoassays.
>
> - Ensure that sample tubes are always placed vertically in the racks.
> - For sample tubes with an outer diameter of 13 mm or less, use the Roche Diagnostics cup adapter or use 13 mm MPA racks alternatively.
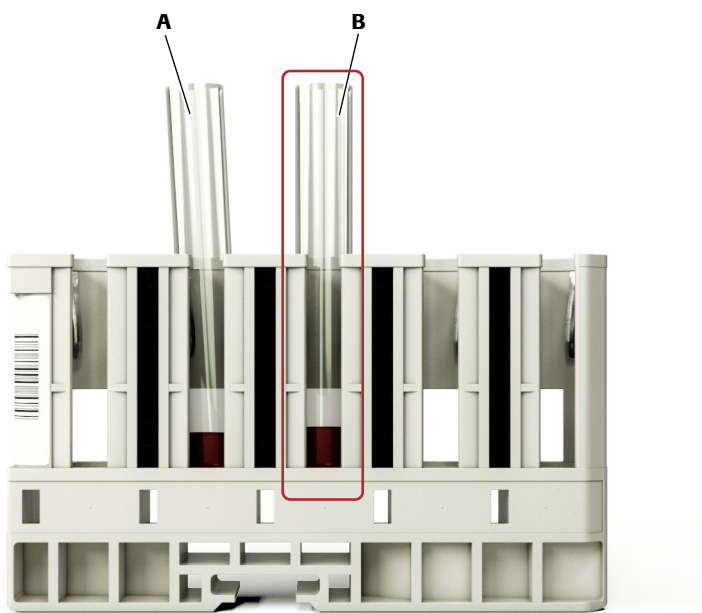> 👁 See *Sample tube alignment* on page -7.
> - Only use sample tubes specified for the use with the **cobas** 6000 analyzer series.
> 👁 See *Sample cups and tubes* on page A-120.

Sample tube alignment   The following figure illustrates correct and incorrect alignment of a sample tube on the rack.

The tube position must be straight vertically for correct sampling. The vertical position also reduces possible barcode reading problems.

| **A** | Incorrect - position misaligned | **B** | Correct - position perfect aligned |

Figure -1   Sample tube alignment

Cup adapters for tubes ≤ 13 mm   To improve the alignment of tubes with an outer diameter ≤ 13 mm, Roche Diagnostics strongly recommends that Roche Diagnostics cup adapters are used.

Cup adapters are inserted into standard racks as shown in the following figure.

| **A** | Roche Diagnostics cup adapter | **C** | 13 mm tube placed in a rack position with |
| **B** | Insert adapter into rack | | cup adapter |

Figure -2   Placing a cup adapter into a rack

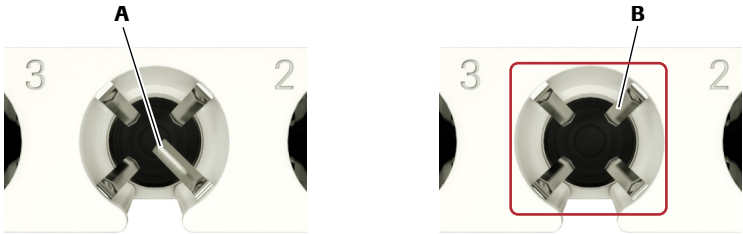If immunoassays are requested, cup adapters must be used for sample tubes with an outer diameter ≤ 13 mm.

Do not use cup adapters for tubes with an outer diameter > 13 mm, because the barcode label might be damaged.

For MPA racks, the cup adapters cannot be used.

Conditions for 13 mm tubes without cup adapters

You can omit the cup adapters for 13 mm sample tubes if the following preconditions are fulfilled:

- The **cobas** 6000 is connected with a **cobas**© 8100 automated workflow series. In this clinical laboratory automation system, a gripper arm places the sample tubes into the racks.
- The sample probes are precisely adjusted in horizontal and vertical direction on all modules. The adjustment must be performed by your Roche Service representative.
- All spring clips are symmetrically bent in the used racks so that the sample tubes are held vertically.

| **A** | Incorrect – spring clips are not symmetric | **B** | Correct – spring clips are symmetric |

Table -1   Spring clips in racks