Absorbance Test Plate (Grey Filter Plate)
EQA-program 3002 DK

The package contains
Absorbance test plate
Instruction - can also be downloaded from www.deks.dk
List of participants

Before you start - Read the instruction.

Material
Absorbance test plate (grey filter plate) for checking absorbance on ELISA readers.

The absorbance test plate is generally applicable to most ELISA readers, as the grey filters are only mounted in specific wells. These are wells C1, D4, E2, F5, G3, and H6.

Most other wells are blinded. However, there is a circular opening in each corner of the plate A1, A12, H1, and H12, where no glass plate is placed. This opening is somewhat smaller than for the other wells and is used to check that the plate is correctly positioned; the absorbance should correspond to 0.000 ± 0.015.
Reading is done against air.
Well 6 expected absorbance in the range [0.0 - 0.5].
Readings can be taken at the following wavelengths: 405nm, 450nm, 490nm, 550nm, 620nm, 630nm, 690nm, and 750nm.

Storage and handling of the Absorbance Test Plate
The absorbance test plate is stored at room temperature in the plastic bag in the black box to avoid dust!
The plate should only be touched at the edges.

Deadlines
When the plate is received, send an email to lisbeth.nielsen@deks.dk to notify this.

The measurements take about 1 hour.

The test plate must be returned to DEKS no later than one week after receipt.

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Instructions before reading the Absorbance Test Plate
Do not write on the instruction but print a copy from deks.dk for your own use.

Reading the Absorbance Test Plate

1. Place the absorbance test plate in the reader facing the filter's serial number (metal plate) down and row 1 first. A1 is now the first well.

2. Select the wavelength. If the reader cannot read precisely at one of the above wavelengths, you can often just read at the nearest possible wavelength. (Interpolated values between the given wavelengths are used as target values, but this increases uncertainty).

3. Make the measurement.

4. Then place the absorbance test plate so that A1 is the last well and repeat the measurement. This checks that the individual channels in the ELISA reader measure the same. When entering data in the form, be aware of the correct reading of absorbances (now H12 = A1 and H1 = A12, etc.).

5. Perform maintenance on the instrument if the spread between results is high.

6. Change the wavelength and perform the check for all wavelengths relevant to your laboratory.

Result reporting
The result scheme for reporting must be downloaded from www.deks.dk > Laboratories > DEKS' EQA programs > Absorbance test plate (ELISA plate grey filter) (3002DK) > Download result scheme 2026
Note! Do not use a result scheme from previous years.

Start by saving the file on your PC and fill in the colored fields at the top of the result scheme with DEKS Lab no., Laboratory name, and Instrument specifications.

Enter all results in the result scheme and send a copy of the scheme to lisbeth.nielsen@deks.dk.

When DEKS has received the result scheme, you will receive an email with a form with "Recommended values and acceptance interval."

For Bio-Tek equipment, deviations of ± 0.020 milliabsorbance and ± 2% of the absorbance are accepted, which is identical to the acceptance interval indicated in the table in parentheses. Use this as a guide.

Returning the Absorbance Test Plate to DEKS
The Absorbance Test Plate plate must be returned to DEKS no later than two weeks after receipt.

Place the absorbance test plate in the black box and pack it in the foam box with bubble wrap as received and send the package with tracking to DEKS, see the address on the list of participants. Send an email to lisbeth.nielsen@deks.dk, informing that the test plate is being returned.

Report
The report will be available on www.deksonline.dk in early February 2027.

Questions
Contact DEKS if you have any questions about the program at email: lisbeth.nielsen@deks.dk

Best regards
Lisbeth Nielsen, DEKS