# Absorbance Test Plate (ELISA grey filter)
# EQA report 2025

| Program no.: | Analysis period: | Deadline for reporting: | Published |
|---|---|---|---|
| 3002 DK | 01.2025 – 01.2026 | 01.2025 – 01.2026 | 23.01.2025 |

In this round, two absorbance test plates were included, which deviates from the standard procedure where only one plate is distributed and reported. This was because the original test plate went missing during circulation. DEKS therefore used a replacement plate to ensure that reporting could proceed without delay. The original test plate was later found and circulated.

## Number of participants

From January 2025 to January 2026, the absorbance test plates were circulated among 23 laboratories in six different countries. Results were reported from a total of 37 ELISA readers, of which 34 were measured on the original plate and three on the replacement plate. Upon receiving the results, DEKS assigned each reader a unique code, shown in the instrument overview in Table 1. The table also includes information on the manufacturer, model, and year of purchase for each reader.

## ELISA absorbance test plate

The plates with serial numbers 125929 (original plate) and 132071 (replacement plate) are absorbance test plates equipped with grey filters in selected wells: C1, D4, E2, F5, G3 and H6. Most remaining wells are blocked. In each corner of the plate (A1, A12, H1 and H12), there is a small opening without a glass plate, which is used to verify correct plate transport. The absorbance for these wells must be 0.000 ± 0.015. Well C6 is of standard size and also without a glass plate; it is used for 'blank' control. All readings are performed against air.

### Target values

The recommended values (T) shown in Tables 2–14 are certified and were established through calibration. They are traceable to NIST SRM 1930 SET 1-095, 3-095, 50-095, 95 020/NDGF/4XGQ.

### Outliers

For the plate with serial number 125929, the absorbance values (both measurements) in wells D4 or F5 were assessed as outliers at wavelengths 405 nm, 450 nm, 490 nm and 630 nm for four participants. For one participant, the absorbance values (both measurements) in wells C1, D4, E2, F5, G3 and H6 were assessed as outliers at 450 nm due to suspected measurement error.
Outliers were defined by expert judgment, and these results were therefore excluded from the calculations.

### Acceptance interval

The most recent calibration was performed by Agilent Technologies, Inc. on 27 December 2023 for the plate with serial number 125929, and on 6 December 2022 for the plate with serial number 132071. Calibration was conducted at a temperature of 70 °F (equivalent to 21.1 °C) and a relative humidity of 25%.
The acceptance interval for the target value is defined as ±2% of the reading ±0.02 OD and is indicated in parentheses in Tables 2–14 for each wavelength.

### Procedure

Participants measured the absorbance test plate on their ELISA reader. Eight wavelengths were selectable. If measurements were performed at another wavelength, results were assigned to the nearest selectable wavelength. Two measurements were performed, with the plate rotated 180° horizontally between readings, so that A1 was read as H1, etc. This served as a control of the ELISA reader's plate transport system. Participants reported their values by completing a results form from deks.dk, which was then submitted to DEKS. After DEKS received the results, each participating laboratory was sent a table containing the recommended values and acceptance intervals, as well as a copy of the plate's calibration certificate.

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**DEKS** | Rigshospitalet-Glostrup | Valdemar Hansens Vej 1-27, entrance 8,1. floor, DK-2600 Glostrup
T: +45 3863 4400 | E: deks@deks.dk

## Results and comments

Mean absorbances and percentage deviations were calculated per manufacturer for each wavelength (see Appendix 2, Tables 2–14). Absorbances outside the acceptance interval that were not considered outliers were also included in the calculation of mean values. The plate with serial number 132071 is not commented on due to an insufficient number of reported measurements.

### Method differences

*Plate with serial number 125929*

Overall, good agreement was observed between manufacturers. All manufacturers obtained mean absorbances within the plate's permitted acceptance interval, with a few exceptions: For ELISA readers from Rayto and BMG LABTECH, the mean absorbance for both measurements fell outside the acceptance interval in well F5 at 405 nm and 750 nm, respectively.

As the mean absorbance for both Rayto and BMG LABTECH was calculated from measurements from only one participant, these results are associated with substantial uncertainty.

No systematic deviations were found for any manufacturer. The observed deviations were attributable to individual participants. Overall, the manufacturers showed good agreement with the certified (recommended) values.

To document that the plate's properties did not change during circulation, DEKS read the plate both before and after distribution. Measurements were performed on a VICTOR3 Reader from Perkin Elmer at wavelengths 405 and 450 nm. The results showed that the plate had not changed, as the difference was ≤ ±0.011 and the measured absorbances were within the acceptance intervals of the recommended values.

## Distribution in 2026

DEKS will initiate the circulation of the absorbance test plate in February 2026.

### Kind regards
### Lisbeth Nielsen and Dår Kur

### Appendices

1. Instrument overview, Table 1
2. Mean absorbances and deviations, Tables 2–14

**Program coordinators**
Lisbeth Nielsen
☎ 3863 4410
lisbeth.nielsen@deks.dk

Dår Kur
☎ 3863 4406
daar.kur@deks.dk

**Approved by**
MP
22.01.2026

**Table 1** **Absorbance Test Plate (ELISA grey filter), program 3002 DK**

Instrument overview 2025

Gray filter serial number: 125929

| Code | Manufacturer | Reader model | Year of purchase |
|---|---|---|---|
| 1 | Molecular Devices | SpectraMax 190 | 2018 |
| 2 | ASYS Hitech | Expert Plus UV | 2012 |
| 3 | TECAN | Infinite F50 | 2017 |
| 4 | TECAN | Sunrise | 2021 |
| 5 | BMG LABTECH | CLARIOstar PLUS | 2020 |
| 6 | Agilent BioTek | ELx808 | 2018 |
| 7 | Holm & Halby | Bio Tek Synergy HT | 2013 |
| 8 | TECAN | Sunrise | 2014 |
| 9 | TECAN | Sunrise | 1999 |
| 10 | Agilent BioTek | ELx808 | 2016 |
| 11 | Agilent BioTek | ELx808 | - |
| 12 | Agilent BioTek | ELx808 | - |
| 13 | Agilent BioTek | ELx808 | - |
| 14 | Agilent BioTek | ELx808 | - |
| 15 | Thermo Scientific | Multiskan FC | 2013 |
| 16 | BioSan | HiPo MPP-96 | 2017 |
| 17 | Perkin Elmer | VICTOR3 | 2007 |
| 18 | Perkin Elmer | Viktor Nivo | 2023 |
| 19 | Biochrom | Asys Expert 96 | 2016 |
| 20 | Agilent BioTek | Powerwave XS | 1997 |
| 21 | Agilent BioTek | 800 TS | 2020 |
| 22 | Euroimmun | Analyzer I | 2014 |
| 23 | Euroimmun | Analyzer I | 2020 |
| 24 | Euroimmun | Analyzer I | 2020 |
| 25 | Euroimmun | Analyzer I | 2016 |
| 26 | Euroimmun | Analyzer I | 2024 |
| 27 | Rayto | RT-6100 | 2015 |
| 28 | STRATEC Biomedical AG | Stratec Gemini | 2016 |
| 29 | Thermo Scientific | Multiskan FC | 2022 |
| 30 | Thermo Scientific | Multiskan FC | 2016 |
| 31 | TECAN | Spark | 2021 |
| 32 | TECAN | Sunrise | 2025 |
| 33 | TECAN | Sunrise | 2024 |
| 34 | TECAN | Sunrise | 2024 |
| 35 | TECAN | Infinite F50 | 2019 |
| 36 | TECAN | Sunrise | 2023 |
| 37 | AESKU Systems | SQII | 2013 |
| | | | |

**Table 2**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 125929

### 405 nm

| Well | | A1 \| A12 \| H1 \| H12 \| C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 7 | | | 0,160 | 9,9 | | 0,559 | 0,6 | | 1,168 | 0,1 | | 1,746 | 0,1 | | 2,105# | 0,5 | | 2,796# | -0,6 |
| Agilent BioTek | 7 | | | 0,158 | 8,3 | | 0,559 | 0,5 | | 1,172 | 0,4 | | 1,752 | 0,4 | | 2,111 | 0,7 | | 2,809 | -0,1 |
| Thermo Scientific | 3 | | | 0,162 | 11,2 | | 0,558 | 0,3 | | 1,167 | 0,0 | | 1,743 | -0,1 | | 2,086 | -0,4 | | 2,772 | -1,4 |
| Perkin Elmer | 2 | | | 0,162 | 10,8 | | 0,559 | 0,5 | | 1,167 | 0,0 | | 1,751 | 0,4 | | 2,100 | 0,2 | | 2,790 | -0,8 |
| Molecular Devices | 1 | | | 0,166 | 13,7 | | 0,563 | 1,2 | | 1,168 | 0,0 | | 1,746 | 0,1 | | 2,114 | 0,9 | | 2,791 | -0,8 |
| Holm & Halby | 1 | | 0,146 | 0,160 | 9,6 | 0,556 | 0,557 | 0,1 | 1,167 | 1,163 | -0,4 | 1,744 | 1,738 | -0,3 | 2,095 | 2,088 | -0,3 | 2,812 | 2,780 | -1,1 |
| BioSan | 1 | 0,000 +/- 0,015 | (0,123- | 0,162 | 11,1 | (0,525- | 0,561 | 0,9 | (1,124- | 1,167 | 0,0 | (1,689- | 1,746 | 0,1 | (2,033- | 2,094 | -0,1 | (2,736- | 2,782 | -1,1 |
| BMG LABTECH | 1 | | 0,169) | 0,169 | 15,8 | 0,587) | 0,565 | 1,6 | 1,210) | 1,173 | 0,5 | 1,799) | 1,759 | 0,8 | 2,157) | 2,156 | 2,9 | 2,888) | 2,814 | 0,1 |
| Biochrom | 1 | | | 0,163 | 11,6 | | 0,557 | 0,2 | | 1,165 | -0,2 | | 1,743 | -0,1 | | 2,075 | -1,0 | | 2,760 | -1,9 |
| ASYS Hitech | 1 | | | 0,158 | 7,9 | | 0,557 | 0,1 | | 1,167 | 0,0 | | 1,743 | -0,1 | | 2,087 | -0,4 | | 2,789 | -0,8 |
| Rayto | 1 | | | 0,165 | 13,0 | | 0,567 | 2,0 | | 1,183 | 1,4 | | 1,789 | 2,6 | | 2,183* | 4,2 | | 3,282# | - |
| STRATEC Biomedical AG | 1 | | | 0,168 | 14,7 | | 0,561 | 0,8 | | 1,170 | 0,3 | | 1,749 | 0,3 | | 2,090 | -0,3 | | 2,822 | 0,4 |
| **All** | **27** | | | **0,163** | **11,5** | | **0,560** | **0,7** | | **1,169** | **0,2** | | **1,750** | **0,4** | | **2,100** | **0,6** | | **2,791** | **-0,7** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)
* = One or more results are outside the acceptance interval
# = One or more of the results are outliers

**Table 3**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 125929

### 450 nm

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| Agilent BioTek | 8 | 0,000 +/- 0,015 | | | | | 0,139 (0,116-0,162) | 0,153 | 9,9 | 0,517 (0,487-0,547) | 0,519 | 0,4 | 1,083 (1,041-1,125) | 1,085 | 0,2 | 1,616 (1,564-1,668) | 1,621 | 0,3 | 1,862 (1,805-1,919) | 1,869 | 0,4 | 2,476 (2,406-2,546) | 2,482 | 0,2 |
| TECAN | 7 | | | | | | | 0,153 | 10,0 | | 0,520 | 0,5 | | 1,084 | 0,1 | | 1,620 | 0,3 | | 1,868 | 0,3 | | 2,480 | 0,2 |
| Euroimmun | 5 | | | | | | | 0,005# | - | | 0,001# | - | | 0,001# | - | | 0,001# | - | | 0,116# | - | | 0,154# | - |
| Thermo Scientific | 3 | | | | | | | 0,153 | 10,0 | | 0,516 | -0,2 | | 1,071 | -1,1 | | 1,608 | -0,5 | | 1,856 | -0,3 | | 2,464 | -0,5 |
| Perkin Elmer | 2 | | | | | | | 0,154 | 10,6 | | 0,514 | -0,5 | | 1,073 | -0,9 | | 1,607 | -0,6 | | 1,851 | -0,6 | | 2,461 | -0,6 |
| Molecular Devices | 1 | | | | | | | 0,160 | 15,1 | | 0,525 | 1,5 | | 1,088 | 0,5 | | 1,626 | 0,6 | | 1,885 | 1,2 | | 2,486 | 0,4 |
| Holm & Halby | 1 | | | | | | | 0,153 | 9,7 | | 0,519 | 0,3 | | 1,082 | -0,1 | | 1,616 | 0,0 | | 1,933# | - | | 2,476 | 0,0 |
| BioSan | 1 | | | | | | | 0,152 | 9,6 | | 0,518 | 0,1 | | 1,078 | -0,5 | | 1,613 | -0,2 | | 1,860 | -0,1 | | 2,473 | -0,1 |
| BMG LABTECH | 1 | | | | | | | 0,155 | 11,5 | | 0,516 | -0,3 | | 1,076 | -0,7 | | 1,621 | 0,3 | | 1,899 | 2,0 | | 2,474 | -0,1 |
| Biochrom | 1 | | | | | | | 0,153 | 10,1 | | 0,518 | 0,1 | | 1,080 | -0,3 | | 1,615 | -0,1 | | 1,858 | -0,2 | | 2,475 | -0,1 |
| ASYS Hitech | 1 | | | | | | | 0,153 | 10,1 | | 0,520 | 0,6 | | 1,086 | 0,2 | | 1,617 | 0,0 | | 1,847 | -0,8 | | 2,451 | -1,0 |
| Rayto | 1 | | | | | | | 0,158 | 13,5 | | 0,526 | 1,7 | | 1,095 | 1,1 | | 1,655 | 2,4 | | 1,914 | 2,8 | | 2,681# | - |
| STRATEC Biomedical AG | 1 | | | | | | | 0,157 | 12,9 | | 0,520 | 0,6 | | 1,081 | -0,2 | | 1,611 | -0,3 | | 1,859 | -0,2 | | 2,478 | 0,1 |
| **All** | **33** | | | | | | | **0,154** | **11,1** | | **0,519** | **0,4** | | **1,082** | **-0,1** | | **1,619** | **0,2** | | **1,869** | **0,4** | | **2,473** | **-0,1** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)
# = One or more of the results are outliers

**Table 4**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 125929

### 490 nm

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 8 | | | | | | | 0,147 | 9,5 | | 0,519 | -0,3 | | 1,086 | 0,1 | | 1,620 | -0,1 | | 1,828 | 0,3 | | 2,432 | 0,1 |
| Agilent BioTek | 7 | | | | | | | 0,147 | 9,3 | | 0,517 | -0,7 | | 1,083 | -0,2 | | 1,618 | -0,2 | | 1,824 | 0,0 | | 2,423 | -0,2 |
| Thermo Scientific | 2 | | | | | | | 0,149 | 11,5 | | 0,519 | -0,4 | | 1,086 | 0,1 | | 1,621 | 0,0 | | 1,823 | 0,0 | | 2,426 | -0,1 |
| Holm & Halby | 1 | | | | | | | 1,148 | 756,3 | | 0,519 | -0,5 | | 1,084 | -0,1 | | 1,619 | -0,2 | | 1,825 | 0,1 | | 2,425 | -0,1 |
| BioSan | 1 | | | | | | | 0,151 | 12,4 | | 0,530 | 1,7 | | 1,089 | 0,4 | | 1,633 | 0,7 | | 1,829 | 0,4 | | 2,440 | 0,5 |
| Perkin Elmer | 1 | | | | | | | 0,145 | 7,8 | | 0,521 | -0,1 | | 1,089 | 0,4 | | 1,629 | 0,5 | | 1,828 | 0,3 | | 2,436 | 0,3 |
| BMG LABTECH | 1 | | | | | | | 0,148 | 10,1 | | 0,513 | -1,5 | | 1,074 | -1,0 | | 1,612 | -0,6 | | 1,856 | 1,8 | | 2,422 | -0,3 |
| Biochrom | 1 | | | | | | | 0,148 | 10,4 | | 0,521 | 0,0 | | 1,088 | 0,2 | | 1,626 | 0,3 | | 1,828 | 0,2 | | 2,434 | 0,2 |
| ASYS Hitech | 1 | | | | | | | 0,144 | 7,5 | | 0,521 | -0,1 | | 1,090 | 0,4 | | 1,626 | 0,3 | | 1,831 | 0,4 | | 2,427 | -0,1 |
| Rayto | 1 | | | | | | | 0,151 | 13,0 | | 0,525 | 0,8 | | 1,095 | 0,9 | | 1,636 | 0,9 | | 1,862 | 2,1 | | 2,586# | - |
| STRATEC Biomedical AG | 1 | | | | | | | 0,153 | 13,8 | | 0,523 | 0,4 | | 1,091 | 0,5 | | 1,626 | 0,3 | | 1,830 | 0,4 | | 2,445 | 0,7 |
| **All** | **25** | 0,000 +/- 0,015 | | | | | 0,134 (0,111-0,157) | **0,239** | **78,3** | 0,521 (0,491-0,551) | **0,521** | **-0,1** | 1,085 (1,043-1,127) | **1,087** | **0,1** | 1,621 (1,569-1,673) | **1,624** | **0,2** | 1,823 (1,767-1,879) | **1,833** | **0,6** | 2,428 (2,359-2,497) | **2,431** | **0,1** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)

**Table 5** **Absorbance Test Plate (ELISA grey filter), program 3002 DK**

Mean absorbances and deviations of manufacturers 2025

Gray filter serial number: 125929

**550 nm**

| Well | | A1 A12 H1 H12 C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 3 | | | 0,140 | 7,7 | | 0,518 | 0,3 | | 1,081 | 0,5 | | 1,615 | 0,5 | | 1,813 | 0,4 | | 2,411 | 0,4 |
| Thermo Scientific | 2 | | | 0,141 | 8,1 | | 0,514 | -0,4 | | 1,075 | -0,1 | | 1,606 | -0,1 | | 1,811 | 0,3 | | 2,407 | 0,2 |
| Agilent BioTek | 2 | | 0,130 | 0,146 | 12,3 | 0,516 | 0,516 | -0,1 | 1,076 | 1,074 | -0,2 | 1,607 | 1,607 | 0,0 | 1,805 | 1,807 | 0,1 | 2,402 | 2,402 | 0,0 |
| Holm & Halby | 1 | 0,000 +/- 0,015 | (0,107- | 0,144 | 10,8 | (0,486- | 0,515 | -0,3 | (1,034- | 1,075 | -0,1 | (1,555- | 1,605 | -0,2 | (1,749- | 1,810 | 0,3 | (2,334- | 2,408 | 0,2 |
| BMG LABTECH | 1 | | 0,153) | 0,144 | 10,8 | 0,546) | 0,510 | -1,2 | 1,118) | 1,066 | -1,0 | 1,659) | 1,598 | -0,6 | 1,861) | 1,839 | 1,9 | 2,470) | 2,393 | -0,4 |
| ASYS Hitech | 1 | | | 0,145 | 11,2 | | 0,525 | 1,6 | | 1,097 | 1,9 | | 1,636 | 1,8 | | 1,823 | 1,0 | | 2,423 | 0,9 |
| **All** | **10** | | | **0,143** | **10,1** | | **0,516** | **0,0** | | **1,078** | **0,2** | | **1,611** | **0,2** | | **1,817** | **0,7** | | **2,407** | **0,2** |

N = Number of answers

T = Target value and acceptance interval

M = Mean

D = Deviation from target value (%)

**Table 6**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 125929

**620 nm**

| Well | | A1 A12 H1 H12 C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 6 | | | 0,148 | 9,9 | | 0,520 | -0,4 | | 1,087 | -0,1 | | 1,624 | 0,0 | | 1,757 | 0,2 | | 2,335 | 0,2 |
| Thermo Scientific | 3 | | | 0,149 | 10,6 | | 0,518 | -0,7 | | 1,084 | -0,4 | | 1,619 | -0,3 | | 1,750 | -0,2 | | 2,326 | -0,2 |
| Agilent BioTek | 2 | | | 0,149 | 10,2 | | 0,519 | -0,6 | | 1,083 | -0,5 | | 1,619 | -0,3 | | 1,751 | -0,1 | | 2,324 | -0,3 |
| Molecular Devices | 1 | | | 0,155 | 14,4 | | 0,524 | 0,4 | | 1,087 | -0,1 | | 1,624 | 0,0 | | 1,768 | 0,8 | | 2,333 | 0,1 |
| Holm & Halby | 1 | | 0,135 | 0,150 | 11,1 | 0,522 | 0,520 | -0,5 | 1,088 | 1,086 | -0,2 | 1,624 | 1,623 | -0,1 | 1,753 | 1,756 | 0,1 | 2,331 | 2,333 | 0,1 |
| BioSan | 1 | 0,000 +/- 0,015 | (0,112- | 0,157 | 16,2 | (0,492- | 0,526 | 0,9 | (1,046- | 1,089 | 0,1 | (1,572- | 1,627 | 0,2 | (1,698- | 1,754 | 0,0 | (2,264- | 2,332 | 0,0 |
| BMG LABTECH | 1 | | 0,158) | 0,150 | 10,7 | 0,552) | 0,515 | -1,3 | 1,130) | 1,077 | -1,1 | 1,676) | 1,618 | -0,4 | 1,808) | 1,785 | 1,8 | 2,398) | 2,327 | -0,2 |
| Biochrom | 1 | | | 0,152 | 12,2 | | 0,521 | -0,2 | | 1,087 | -0,1 | | 1,625 | 0,1 | | 1,753 | 0,0 | | 2,338 | 0,3 |
| ASYS Hitech | 1 | | | 0,151 | 11,9 | | 0,523 | 0,1 | | 1,086 | -0,2 | | 1,623 | -0,1 | | 1,755 | 0,1 | | 2,336 | 0,2 |
| STRATEC Biomedical AG | 1 | | | 0,154 | 14,1 | | 0,523 | 0,1 | | 1,089 | 0,1 | | 1,625 | 0,0 | | 1,758 | 0,3 | | 2,343 | 0,5 |
| **All** | **18** | | | **0,151** | **12,1** | | **0,521** | **-0,2** | | **1,085** | **-0,2** | | **1,623** | **-0,1** | | **1,758** | **0,3** | | **2,332** | **0,1** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)

**Table 7** **Absorbance Test Plate (ELISA grey filter), program 3002 DK**

Mean absorbances and deviations of manufacturers 2025

Gray filter serial number: 125929

**630 nm**

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| Agilent BioTek | 7 | | | | | | | 0,149 | 9,7 | | 0,514 | -0,6 | | 1,076 | -0,1 | | 1,608 | 0,0 | | 1,728 | 0,2 | | 2,296 | -0,2 |
| TECAN | 2 | | | | | | | 0,146 | 7,0 | | 0,513 | -0,9 | | 1,073 | -0,4 | | 1,607 | 0,0 | | 1,722 | -0,1 | | 2,289 | -0,5 |
| Holm & Halby | 1 | | | | | | 0,136 | 0,151 | 11,0 | 0,517 | 0,515 | -0,4 | 1,077 | 1,076 | -0,1 | 1,607 | 1,607 | 0,0 | 1,724 | 1,729 | 0,3 | 2,301 | 2,298 | -0,2 |
| BMG LABTECH | 1 | | 0,000 +/- 0,015 | | | | (0,113- | 0,150 | 9,9 | (0,487- | 0,511 | -1,2 | (1,035- | 1,067 | -0,9 | (1,555- | 1,601 | -0,4 | (1,670- | 1,764 | 2,3 | (2,235- | 2,291 | -0,4 |
| Biochrom | 1 | | | | | | 0,159) | 0,154 | 13,2 | 0,547) | 0,511 | -1,3 | 1,119) | 1,065 | -1,2 | 1,659) | 1,590 | -1,1 | 1,778) | 1,673 | -3,0 | 2,367) | 2,225# | - |
| Rayto | 1 | | | | | | | 0,154 | 12,9 | | 0,521 | 0,7 | | 1,086 | 0,8 | | 1,633 | 1,6 | | 1,758 | 2,0 | | 2,345 | 1,9 |
| **All** | **13** | | | | | | | **0,150** | **10,6** | | **0,514** | **-0,6** | | **1,074** | **-0,3** | | **1,607** | **0,0** | | **1,729** | **0,3** | | **2,304** | **0,1** |

N = Number of answers

T = Target value and acceptance interval

M = Mean

D = Deviation from target value (%)

# = One or more of the results are outliers

**Table 8** **Absorbance Test Plate (ELISA grey filter), program 3002 DK**

Mean absorbances and deviations of manufacturers 2025

Gray filter serial number: 125929

**690 nm**

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 2 | | | | | | | 0,136 | 7,9 | | 0,436 | -0,2 | | 0,909 | -0,1 | | 1,365 | 0,8 | | 1,426 | 0,4 | | 1,888 | 0,1 |
| Holm & Halby | 1 | | | | | | 0,126 | 0,141 | 11,9 | 0,437 | 0,440 | 0,7 | 0,910 | 0,913 | 0,3 | 1,354 | 1,359 | 0,4 | 1,420 | 1,429 | 0,6 | 1,887 | 1,896 | 0,5 |
| BMG LABTECH | 1 | 0,000 +/- 0,015 | | | | | (0,103- | 0,139 | 10,3 | (0,408- | 0,434 | -0,8 | (0,872- | 0,899 | -1,2 | (1,307- | 1,345 | -0,7 | (1,372- | 1,462 | 2,9 | (1,829- | 1,875 | -0,7 |
| Agilent BioTek | 1 | | | | | | 0,149) | 0,145 | 15,1 | 0,466) | 0,442 | 1,1 | 0,948) | 0,910 | 0,0 | 1,401) | 1,356 | 0,1 | 1,468) | 1,424 | 0,3 | 1,945) | 1,890 | 0,2 |
| **Alle** | **5** | | | | | | | **0,140** | **11,3** | | **0,438** | **0,2** | | **0,908** | **-0,3** | | **1,356** | **0,2** | | **1,435** | **1,1** | | **1,887** | **0,0** |

N = Number of answers

T = Target value and acceptance interval

M = Mean

D = Deviation from target value (%)

**Table 9**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 125929

### 750 nm

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| Holm & Halby | 1 | 0,000 +/- 0,015 | | | | | 0,132 (0,109-0,155) | 0,147 | 11,0 | 0,392 (0,364-0,420) | 0,392 | -0,1 | 0,808 (0,772-0,844) | 0,807 | -0,2 | 1,200 (1,156-1,244) | 1,199 | -0,1 | 1,180 (1,136-1,224) | 1,186 | 0,5 | 1,567 (1,516-1,618) | 1,570 | 0,2 |
| BMG LABTECH | 1 | | | | | | | 0,145 | 9,8 | | 0,389 | -0,9 | | 0,801 | -0,9 | | 1,195 | -0,4 | | 1,225* | 3,8 | | 1,559 | -0,5 |
| Agilent BioTek | 1 | | | | | | | 0,151 | 14,4 | | 0,394 | 0,5 | | 0,807 | -0,1 | | 1,199 | -0,1 | | 1,184 | 0,3 | | 1,568 | 0,1 |
| **Alle** | **3** | | | | | | | **0,148** | **11,7** | | **0,391** | **-0,2** | | **0,805** | **-0,4** | | **1,198** | **-0,2** | | **1,185** | **1,5** | | **1,566** | **-0,1** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)
* = One or more results are outside the acceptance interval

**Table 10**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 132071

### 405 nm

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 2 | 0,000 +/- 0,015 | | | | | 0,139 | 0,144 | 3,4 | 0,641 | 0,646 | 0,7 | 1,158 | 1,166 | 0,7 | 1,723 | 1,726 | 0,1 | 2,283 | 2,293 | 0,4 | 2,874 | 2,901 | 0,9 |
| AESKU Systems | 1 | | | | | | (0,116 - | 0,147 | 5,8 | (0,608 - | 0,649 | 1,2 | (1,115 - | 1,170 | 1,0 | (1,669 - | 1,728 | 0,3 | (2,217 - | 2,293 | 0,4 | (2,797 - | 2,898 | 0,8 |
| **All** | **3** | | | | | | 0,162) | **0,145** | **4,6** | 0,674) | **0,647** | **1,0** | 1,201) | **1,168** | **0,9** | 1,777) | **1,727** | **0,2** | 2,349) | **2,293** | **0,4** | 2,951) | **2,900** | **0,9** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)

**Table 11**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 132071

### 450 nm

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 2 | 0,000 +/- 0,015 | | | | | 0,133 | 0,139 | 4,1 | 0,597 | 0,597 | 0,0 | 1,075 | 1,078 | 0,3 | 1,599 | 1,599 | 0,0 | 2,025 | 2,030 | 0,2 | 2,554 | 2,562 | 0,3 |
| AESKU Systems | 1 | | | | | | (0,110 - | 0,142 | 6,8 | (0,564 - | 0,601 | 0,7 | (1,034 - | 1,084 | 0,8 | (1,547 - | 1,603 | 0,3 | (1,965 - | 2,032 | 0,3 | (2,483 - | 2,568 | 0,5 |
| **All** | **3** | | | | | | 0,156) | **0,140** | **5,5** | 0,629) | **0,599** | **0,3** | 1,117) | **1,081** | **0,5** | 1,651) | **1,601** | **0,1** | 2,086) | **2,031** | **0,3** | 2,625) | **2,565** | **0,4** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)

**Table 12**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 132071

### 490 nm

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 2 | 0,000 +/- 0,015 | | | | | 0,128 | 0,132 | 3,1 | 0,596 | 0,594 | -0,3 | 1,075 | 1,075 | 0,0 | 1,597 | 1,594 | -0,2 | 1,980 | 1,982 | 0,1 | 2,497 | 2,501 | 0,1 |
| AESKU Systems | 1 | | | | | | (0,105 - | 0,135 | 5,5 | (0,564 - | 0,596 | 0,0 | (1,034 - | 1,074 | -0,1 | (1,545 - | 1,591 | -0,4 | (1,920 - | 1,977 | -0,2 | (2,427 - | 2,497 | 0,0 |
| **All** | **3** | | | | | | 0,151) | **0,134** | **4,3** | 0,628) | **0,595** | **-0,1** | 1,117) | **1,075** | **0,0** | 1,649) | **1,592** | **-0,3** | 2,040) | **1,980** | **0,0** | 2,567) | **2,499** | **0,1** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)

**Table 13**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 132071

**550 nm**

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 1 | 0,000 +/- 0,015 | | | | | 0,124 (0,102 - 0,146) | 0,125 | 0,4 | 0,591 (0,559 - 0,623) | 0,589 | -0,4 | 1,065 (1,024 - 1,106) | 1,063 | -0,2 | 1,583 (1,531 - 1,635) | 1,580 | -0,2 | 1,962 (1,903 - 2,021) | 1,963 | 0,1 | 2,474 (2,405 - 2,543) | 2,480 | 0,2 |
| **All** | **1** | | | | | | | - | - | | - | - | | - | - | | - | - | | - | - | | - | - |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)

**Table 14**

## Absorbance Test Plate (ELISA grey filter), program 3002 DK

Mean absorbances and deviations of manufacturers 2025
Gray filter serial number: 132071

### 620 nm

| Well | | A1 | A12 | H1 | H12 | C6 | C1 | | | E2 | | | G3 | | | H6 | | | F5 | | | D4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N | T | | | | | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D | T | M | D |
| TECAN | 2 | 0,000 +/- 0,015 | | | | | 0,130 | 0,132 | 1,3 | 0,598 | 0,598 | 0,0 | 1,077 | 1,079 | 0,2 | 1,599 | 1,600 | 0,0 | 1,902 | 1,903 | 0,0 | 2,400 | 2,405 | 0,2 |
| AESKU Systems | 1 | | | | | | (0,107 - | 0,134 | 3,1 | (0,566 - | 0,599 | 0,2 | (1,035 - | 1,078 | 0,1 | (1,547 - | 1,595 | -0,3 | (1,844 - | 1,896 | -0,3 | (2,332 - | 2,395 | -0,2 |
| **All** | **3** | | | | | | 0,153) | **0,133** | **2,2** | 0,630) | **0,599** | **0,1** | 1,119) | **1,079** | **0,2** | 1,651) | **1,597** | **-0,1** | 1,960) | **1,899** | **-0,1** | 2,468) | **2,400** | **0,0** |

N = Number of answers
T = Target value and acceptance interval
M = Mean
D = Deviation from target value (%)