

GET UP TO SPEED

DIABETES TESTING AT THE NEXT LEVEL



AESKULISA® DIABETES SPEED LINE

 **AESKU.DIAGNOSTICS**
THE DIAGNOSTIC TOOL THAT WORKS

WHAT IS NEW

SPEED UP FIRST INCUBATION ONLY 1 H
MORE FLEXIBLE ASSAY RUN LESS THAN 3 H
FULLY AUTOMATABLE FROM THE FIRST STEP



To speed up diabetes testing, AESKU.DIAGNOSTICS have developed the **AESKULISA® DIABETES SPEED LINE** to shorten the assay duration from 18 hours to less than 3 hours.

Until now the first incubation step was performed overnight.

With the new kits this step only takes 1 hour. The **AESKULISA® IA2 SL** and the **AESKULISA® GAD65 SL** are the fastest Diabetes ELISA kits on the market.

Despite these changes we have kept to the same principle and remain true to our philosophy of THE "ONE" AESKU® CONCEPT.

ASSAY FEATURES

- Sample volume: 25 µl
- All incubation steps can be performed at room temperature.

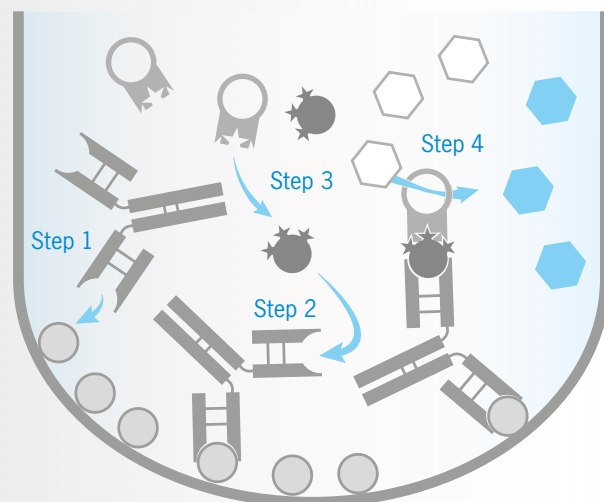
AESKULISA® IA2 SL 60'/30'/30'/30'

AESKULISA® GAD65 SL 60'/30'/30'/30'

- **AESKULISA®** common reagents: sample buffer, wash buffer, substrate and stop solution
- **AESKULISA® IA2 SL** and **AESKULISA® GAD65 SL** are calibrated against the WHO reference reagent NIBSC code: 97/550
- Calibration range for **AESKULISA® IA2 SL** and **AESKULISA® GAD65 SL**: 0-500 IU/ml
- Choice of qualitative or quantitative interpretation

ASSAY PRINCIPLE

The assay takes advantage of the bivalent binding of the autoantibody acting as a bridge between the antigen immobilized on the plate and the biotinylated antigen in the liquid phase.

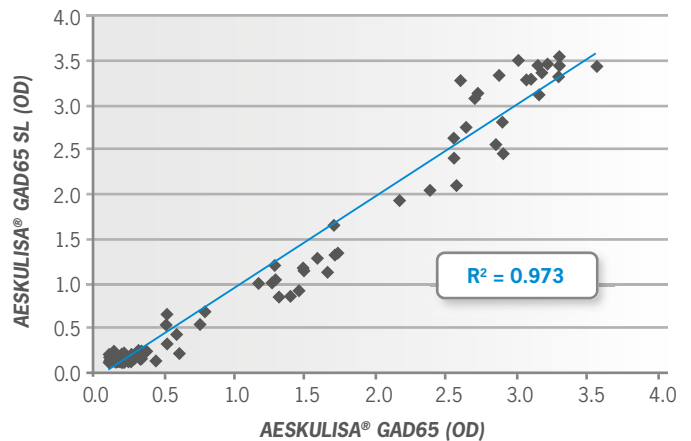
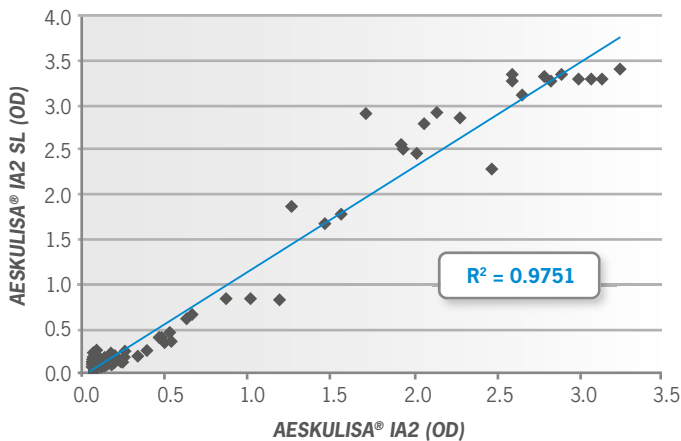


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|-------------------------------|--------------------------------|----------------------------|
| Autoantibody in patient serum | HRP conjugated to streptavidin | colourless substrate |
| Antigen coated on the plate | Biotinylated antigen | coloured product substrate |

DIABETES SPEED LINE VERSUS DIABETES LINE

150 samples from the DASP study 2015 were tested in parallel using the **AESKULISA® IA2 SL** and **AESKULISA® GAD65 SL** in comparison to the traditional **AESKULISA® IA2** and **AESKULISA® GAD65** assays, respectively.

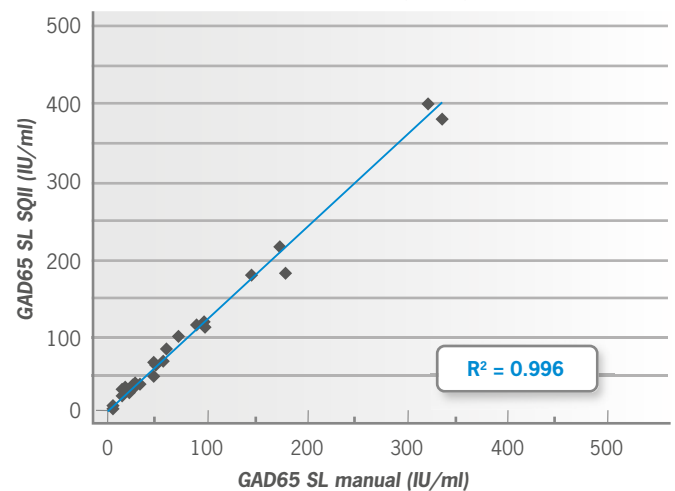
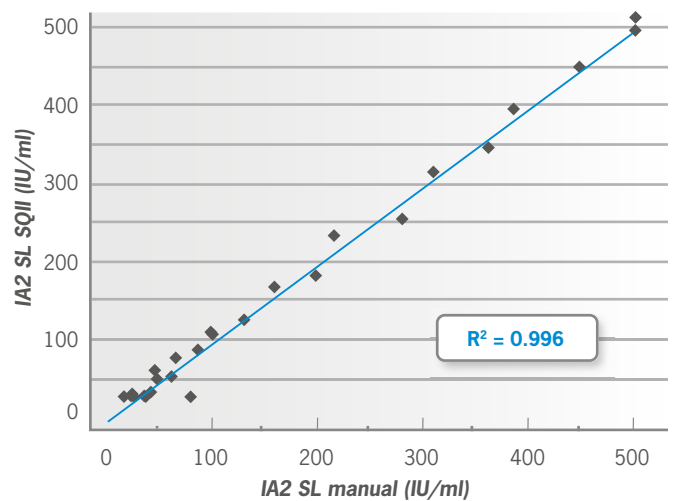
The OD values of the new SL kits show very good agreement with the OD values obtained using the respective traditional version of the kits.



MANUAL VERSUS AUTOMATED PERFORMANCE

32 samples were tested in parallel manually and the ELISA analyzer SQII with the **AESKULISA® IA2 SL** and the **AESKULISA® GAD65 SL**, respectively.

There was very good agreement between the number of units (IU/ml) obtained manually and those obtained using the SQII.



BENEFITS OF AESKU® DIABETES LINE

COST-EFFECTIVE

- AESKU.DIAGNOSTICS offers a complete Auto-immune Diabetes panel allowing simultaneous determination of autoantibodies against IA2, GAD65 and Insulin.
- **AESKULISA® IA2-GAD65 Screen** is a cost-effective screening assay useful in identifying individuals with a high risk for type 1 diabetes because it allows the simultaneous measurement of GAD65 and IA2 autoantibodies in the same sample.

RAPID AND SIMPLIFIED WORKFLOW

- Due to the shortening of the incubation times from 16h to 1h, the **AESKULISA® DIABETES SPEED LINE** line is the fastest on the market.
- The Autoimmune Diabetes Panel **AESKULISA®** have comparable sensitivity and specificity to radiobinding assays (RIA). Additionally, our ELISAs save the need for special equipment and complicated technical and regulatory requirements associated with RIA.
- The **AESKULISA®s IA2 SL, GAD65 SL, IA2, GAD65** and **IA2-GAD65 Screen** share the same calibration range and the same cut-off value.

AUTOMATION FRIENDLY

- All diabetes assays can be run in parallel with the rest of the **AESKULISA®** autoimmune line.
- Simplified automation due to the same test procedure, common reagents and easy handling.

REF 3605

AESKULISA®
IA2 SL

Conjugate:
Streptavidin-HRP

Standard Range:
0-500 IU/ml

REF 3606

AESKULISA®
GAD65 SL

Conjugate:
Streptavidin-HRP

Standard Range:
0-500 IU/ml

REF 3602

AESKULISA®
IA2

Conjugate:
Streptavidin-HRP

Standard Range:
0-500 IU/ml

REF 3603

AESKULISA®
GAD65

Conjugate:
Streptavidin-HRP

Standard Range:
0-500 IU/ml

REF 3604

AESKULISA®
IA2-GAD65 Screen

Conjugate:
Streptavidin-HRP

Standard Range:
0-500 U/ml

REF 3601

AESKULISA®
Insulin

Conjugate:
anti-human IgG-HRP

Equivocal Zone:
12-18 U/ml

Standard Range:
0-300 U/ml

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