

Morffi™ signal enhancement technology

Morffi signal enhancement technology FAQs

+ What is *Morffi* signal enhancement technology?

Morffi signal enhancement technology is a patent pending conjugate blocking technology that could enhance the sensitivity of your lateral flow assay up to 10x more than using other blocking technologies. It's available as part of our lateral flow development and manufacturing services.

+ How does it work?

The method itself is patent pending, so details on the exact process are limited. We can tell you that it increases the availability of the binding partner on the conjugate label surface, therefore increasing the opportunity for binding with the target analyte. This technology can be utilised on all detector label particle types including gold nanoparticles, latex and fluorescent and Europium particles.

+ What assay formats is the technology suitable for?

The technology has been demonstrated to offer a performance enhancement in both sandwich assays and competitive/inhibition formats. Polyclonal, monoclonal and Fab fragmented antibodies can be used with *Morffi* technology.

+ How much improvement does it provide?

Compared to other gold enhancement technologies, our model systems show up to 10x enhancement in limit of detection and an improved signal intensity at the given level of detection.

Sensitivity – Depending on the other reagents in the assay, it can provide up to a 10x increase.

Speed – it could reach your current level of detection up to 4x faster than your current assay.

The technology is also compatible with multiplexed tests.

+ How can I access it?

Morffi technology can be accessed by entering into a lateral flow licensing agreement with BBI. Each project starts with a feasibility evaluation at BBI taking between 1-2 months. This technology can also be used on customer provided detector particles.

+ How will it benefit your customers?

The technology could improve your existing assay, providing you with a better performance; be it an enhancement in sensitivity, improved signal intensity or faster time to result. It can also give a competitive edge to new assays entering the market.

Morffi signal enhancement technology

Morffi signal enhancement technology FAQs

+ How easily can it be integrated into an existing test?

There is little change compared to a standard BSA blocking conjugate, integration of the technology into an existing test is simple and uncomplicated.

+ Is it quantitative?

Morffi Technology can be used in both visual and reader based systems. It can be used with any reader system. It is also compatible with BBI's revolutionary smartphone diagnostic reader technology, developed by Novarum™ DX.

+ Would there be interference with the binding partner in my test?

The technology has been tested extensively during its development to show it will not cross react with existing antibodies.

+ Does the technology use the same lateral flow materials (nitrocellulose membrane, conjugate pad etc) as traditional tests?

Yes, the other component parts are exactly the same as in other lateral flow assays.

+ How much does it cost to develop and manufacture?

BBI offer a range of solutions from assay development through to manufacture. As each assay requirement is different, projects are scoped on a project by project basis. As a guide, a feasibility study at BBI on an existing assay could take 2 months, and a typical project re-development could take 12 months. Alternatively, you could licence the technology and perform the re-development in-house at your facility.

We will be happy to follow up with you to discuss your interest in licensing this technology in more detail.