

# R&D FAST ENZYME SCREENING TECHNOLOGY WITH THESE AVAILABLE SUBSTRATES

## THE SUBSTRATE TECHNOLOGY

GlycoSpot offers screening technology with two different types of substrates. **Purified Biopolymer Substrates (PBS)** are synthesized from pure polysaccharides or proteins. **Complex Biomaterial Substrates (CBS)** are substrates synthesized from complex biological material.

Both will work with e.g. purified enzymes, enzyme mixtures, culture broths, plant and animal tissue extracts.

### Purified Biopolymer Substrates (PBS)

Synthesized from pure polysaccharides and proteins. Suitable for the detection of polysaccharide degrading enzymes such as glycosyl hydrolases and lyases as well as endo-proteases.

### Complex Biomaterial Substrates (CBS)

Synthesized from complex biological material. Responsive to same types of enzymes as listed above with the specific difference related to the ability of CBS to model complex real-life enzymatic hydrolysis situations.

## THE DISCOVERY KIT

THE SUBSTRATES MARKED WITH ✓ ARE PART OF OUR DISCOVERY KIT

	1	2	3	4	5	6	7	8	9	10	11	12
A	2-HE-cellulose								Xyloglucan			
B	Beta-glucan (barley)								Amylopectin			
C	Beta-glucan (yeast)								Amylose			
D									Xylan			
E	Pachyman								Arabinan			
F	Pullulan								Pectic galactan			
G	Dextran								Galactomannan			
H	Chitosan								Rhamnogalacturonan			

## GlycoSpot's SUBSTRATE LIST

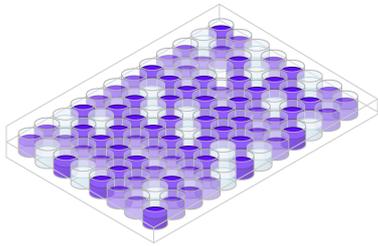
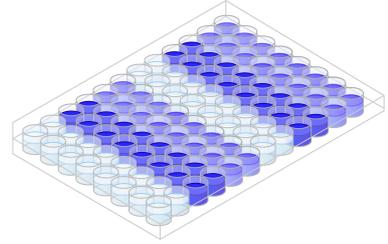
- 2HE-cellulose ✓
- Amylopectin ✓
- Amylose ✓
- Arabinan ✓
- Arabinoxylan
- Beta-glucan (barley) ✓
- Beta-glucan (oat)
- Beta-glucan (yeast) ✓
- Casein
- Curdlan ✓
- Dextran ✓
- Galactomannan ✓
- Lichenan
- Pachyman ✓
- Pectic galactan ✓
- Pullulan ✓
- Rhamnogalacturonan ✓
- Xylan ✓
- Xyloglucan ✓
- CMC
- Collagen (special price)
- Keratin Verde
- Wheat Gluten destarched
- Glucomanan
- Chitosan ✓
- Saw Dust
- Filterpaper
- Citrus Peel
- Spruce
- Sugarcane bagasse
- Willow

THE SCREENING TECHNOLOGY COMES IN

# FOUR FORMATS

## 01 THE DISCOVERY KIT

The Discovery Kit contains 16 different substrates that are perfect for pinpointing the preferred substrate of an enzyme/enzyme mixture whose specificity is unknown. This kit provides an excellent starting point for enzyme discovery and initial evaluation and quantification.

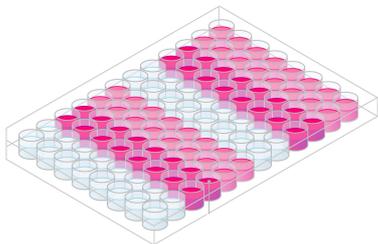
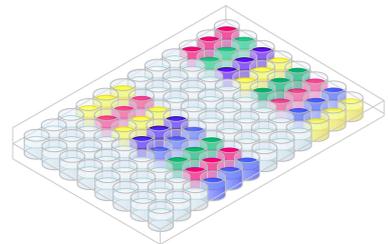


## 02 THE OPTIMIZATION KIT

The Optimization Kit is comprised of your chosen substrate in all 96 multiplate wells and represents a valuable high throughput solution for assessing enzyme concentration/activity/efficiency for enzymes/enzyme mixtures whose specificity is already known.

## 03 THE CUSTOM-LAYOUT KIT

Design your own enzyme activity screening kit from our long list of PBS and CBS substrates. You can choose your substrates, layout and color in the Custom-Layout Kit. If you like it in a special format, just let us know. The only thing you need to provide are your own enzyme specific solutions.



## 04 THE CUSTOMIZATION KIT

We can make a unique substrate for you, based on material you provide us. Custom-Synthesis Kits allow you to go beyond GlycoSpots standard substrate stock and create your own substrate. We produce unique custom substrates from raw biological material, biomass or purified materials. It allows you to gather specific kinetic information on your enzyme of interest with your substrate.