

Megazyme

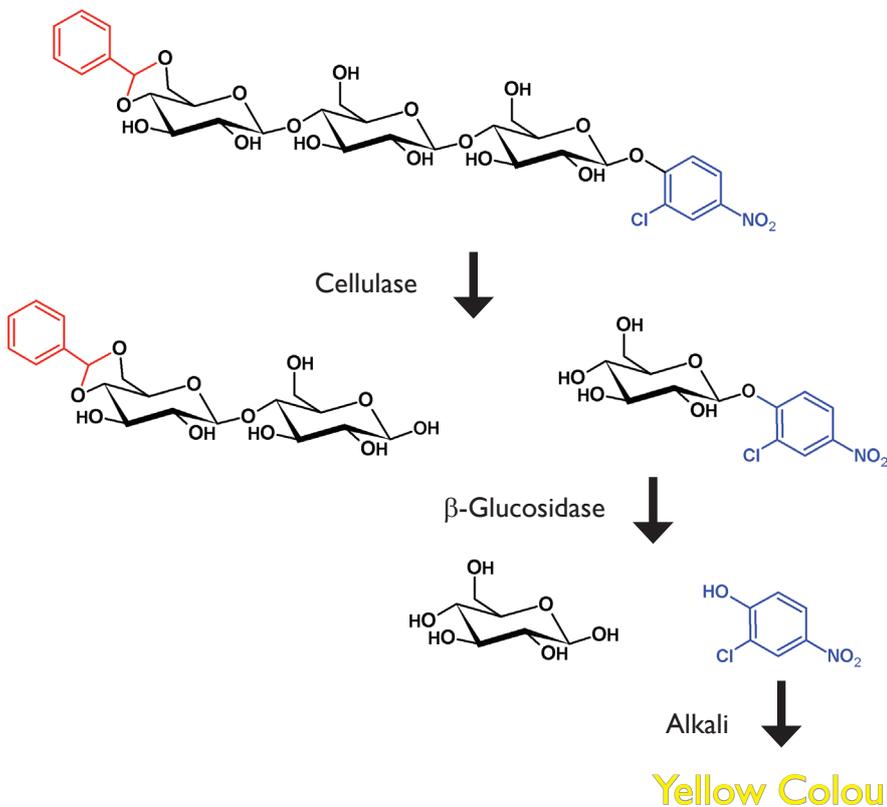
introduces...



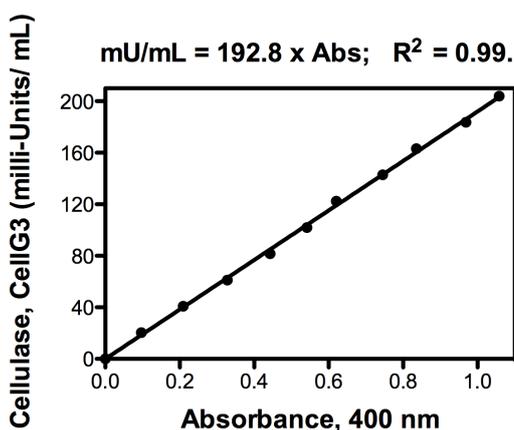
A Defined Substrate for Cellulase Testing!

- Benzylidene blocked 2-chloro-4-nitrophenyl- β -cellotrioside

A liquid stable, user-friendly substrate suitable for measurement of cellulase using manual, auto-analyser or plate reader formats.



Standard curve for the action of *Trichoderma* cellulase on CellG3 substrate.



Substrate (CellG3):

3.3 mM BCPNP-G3 plus β -glucosidase in DMSO and KCl solution.

Assay Conditions:

Incubate 100 μ L of substrate solution with 100 μ L of *Trichoderma* cellulase (0 - 200 mU) in 100 mM sodium acetate buffer, pH 4.5 at 40°C. Terminate reaction after 10 min by addition of 3.0 mL of Tris (2 % w/v, pH 9) with mixing. Read absorbance at 400 nm.

(European Patent Application Number: 12195471.3)

Megazyme International Ireland, Bray Business Park, Bray, Co. Wicklow, Ireland

t + 353 1 286 1220

e info@megazyme.com

w www.megazyme.com



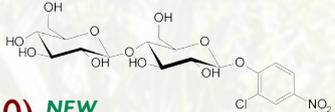
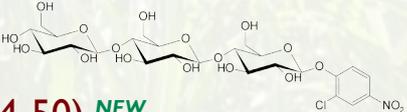
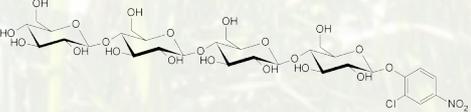
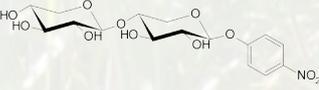
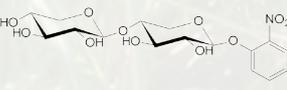
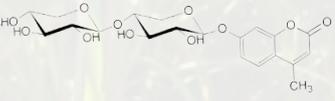
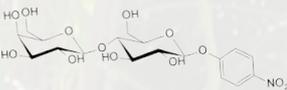
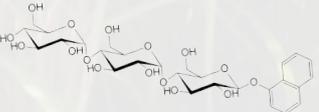
Setting the Standard in Substrate Development for the Assay of Polysaccharide Degrading Enzymes



Analytical Kit

- ◆ **endo-Cellulase (K-CELLG3) ^{NEW}**
(using blocked-2-chloro-4-nitrophenyl- β -cellotriose plus β -glucosidase)
 - a kit for the specific assay of cellulase (*endo*-1,4- β -glucanase) in the presence of other enzymes active on 1,4- β -D-glucan

Oligosaccharides

- ◆ **2-Chloro-4-nitrophenyl- β -cellobioside (O-CPNPG2-100) ^{NEW}**
 - substrate for *endo*-1,4- β -glucanase
- ◆ **2-Chloro-4-nitrophenyl- β -cellotriose (O-CPNPG3-50) ^{NEW}**
 - substrate for *endo*-1,4- β -glucanase
- ◆ **2-Chloro-4-nitrophenyl- β -cellotetraose (O-CPNPG4-50) ^{NEW}**
 - substrate for *endo*-1,4- β -glucanase
- ◆ **4-Nitrophenyl- β -xylobioside (O-PNPX2-50) ^{NEW}**
 - substrate for *endo*-1,4- β -xylanase
- ◆ **2-Nitrophenyl- β -xylobioside (O-ONPX2-25) ^{NEW}**
 - substrate for *endo*-1,4- β -xylanase
- ◆ **4-Methylumbelliferyl- β -xylobioside (O-4MUX2-10) ^{NEW}**
 - substrate for *endo*-1,4- β -xylanase
- ◆ **4-Nitrophenyl- β -lactoside (O-PNPL-100) ^{NEW}**
 - substrate for cellobiohydrolase
- ◆ **Naphthyl- β -maltotriose (O-NAPC3-100) ^{NEW}**
 - substrate for β -amylase when used with β -glucosidase
- ◆ **4-Nitrophenyl- β -maltotriose (O-PNPC3-100) ^{NEW}**
 - substrate for β -amylase when used with β -glucosidase