

ONPG

34055

0161.2

Number	Description
34055	ONPG (<i>o</i> -nitrophenyl- β -D-galactopyranoside), 5g

Storage: Upon receipt store at -20°C protected from moisture and light. Product is shipped at ambient temperature.

Procedure

1. Equilibrate the ONPG to room temperature before opening the bottle. Immediately before use prepare the substrate solution as follows: 3mM ONPG, 10mM MgCl₂, 0.1mM 2-mercaptoethanol in phosphate-buffered saline.
2. Add 150 μ L of ONPG solution to each well.
3. Incubate plate at 30°C for approximately 30 minutes or until appropriate color develops.
4. Stop the reaction with 5 μ L of 1M sodium carbonate.
5. Measure the absorbance at 410nm or 405nm.

Related Thermo Scientific Products

15075	Reagent Reservoirs, 200/pkg
15082	Microtube Racked System, 960 tubes
15036	Sealing Tape for 96-Well Plates, 100/pkg
37538	StartingBlock™ (PBS) Blocking Buffer, 1L
37542	StartingBlock (TBS) Blocking Buffer, 1L

General References

- Leary, J.J., *et al.* (1983). Rapid and sensitive, colorimetric method for visualizing biotin-labeled DNA probes hybridized to DNA or RNA immobilized on nitrocellulose: bio-blot. *Proc Natl Acad Sci USA* **80**:4045-9.
- Bondi, A., *et al.* (1982). The use of β -galactosidase as a tracer in immunocytochemistry. *Histochemistry* **76**:153-8.
- Lojda, Z. (1970). Indigogenic methods for glycosidases. *Histochemie* **23**:266-78.
- Hosli, P., *et al.* (1978). Quantitative ultramicro-scale immunoenzymatic method for measuring Ig antigenic determinants in single cells. *Clin Chem* **24**:1325-30.
- Wallenfels, K. and Malholtra, O. P. (1960). β -Galactosidase. In: Boyer, P.D., Lardy, B., Myrback, K., eds. The Enzymes. 2nd edition. Academic Press, N. Y. pp. 409-30.
- Craven, G.R., *et al.* (1965). Purification, composition, and molecular weight of the β -galactosidase of *Escherichia coli* K12. *J Biol Chem* **240**:2468-77.

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