



Alkaline Phosphatase labeled CCA

Product Description

Name :	Alkaline Phosphatase Conjugated Crude <i>Cancer antennarius</i> Lectin – CCA from California crab
Catalog Number :	FP-MS7570 1 mg purified conjugate / 1 ml Buffer Reconstitute with Buffer to a concentration of 1mg/1ml
Carbohydrate Specificity :	9-O-acetyl sialic acid and 4-O-acetyl sialic acid.
Activity :	Horse and rabbit erythrocytes will not react with human cells.
Buffer :	0.05M Tris-0.1M NaCl-0.01M CaCl ₂ ,pH 7.2 containing 0.05%BSA
Chemical Used for Conjugation:	Alkaline Phosphatase.

Storage: Store liquid refrigerated at 5-8°C in aliquots. DO NOT FREEZE!
(20-50% Glycerol has been added to prevent freezing)

Stability: The liquid material is stable for at least 1 year when stored refrigerated in aliquots with 0.05% sodium azide added as a preservative.

Directions for use

Chemical Principle:

$$\text{Orthophosphoric Monoester} + \text{H}_2\text{O} \xrightarrow{\text{En}} \text{Alcohol} + \text{H}_3\text{PO}_4$$

Assay Reagents:

BUFFER:	0.1 M Tris buffer, pH 8.2.
ENZYME:	Dilute with 0.1 M Tris Buffer. Acceptable dilution: 5-20µg/ml.
SUBSTRATE:	0.001 M p-nitrophenylphosphate (P-NPP).

Procedure

1. Add 2.9 ml substrate to Reaction test tube and 2.9 ml to Control test tube.
2. At time = 0, add 100 µl of diluted ENZYME to Reaction tube and 100 µl Tris to Control tube. Mix thoroughly.

FT-MS7570

3. Measure and record optical density at 410 nm OD(410) every 15 seconds for 3 minutes, or take end point reading after 3 minutes by stopping reaction with 100 µl of 5.0 M NaOH.
4. Use the OD(410) measurement to determine the rate of change in absorbance per minute.

Enzyme Activity Calculations:

One unit of activity is the amount of enzyme to decompose 1 µmole of P-NPP/minute at 25°C. $1.62 \times 10^4 \text{ cm}^{-1}$ is the molar absorbance of P-NPP.

$$\text{OD}(410) / \text{min} = \frac{\text{OD}(410) / 3\text{min} - \text{OD}(410) \text{ Control} / 3 \text{ minutes}}{3 \text{ minutes}}$$

$$\text{mg enzyme} / \text{ml reaction mixture} = \frac{[\text{enzyme dilution}]}{30}$$

$$\text{units} / \text{mg} = \frac{\text{OD}(410) / \text{min}}{1.62 \times 10^4 \text{ ml reaction mixture}}$$

References

- Ravindranath, M.H. et al. (1985). J. Biol. Chem. 260:8850-8856.
- Ravindranath, M.H. et al. (1987) Meth. Enzy. 138:520-527
- Ravindranath M.H.. et al. J.Biol Chem 263:2079-2086

Related products

- [Lectin List](#) (or search [conjugated lectins](#)):
- ConA-Biotin, [FP-MS9690](#); -FITC, [FP-47496A](#);
- -Cy3, [FP-WT8680](#),
- GS-I-FITC; [FP-MS9020](#)
- PNA-FITC, [FP-BV4181](#)
- WGA-biotin, [FP-MS5730](#); -SR101, [FP-MS9540](#); -FITC, [FP-CE8070](#)

Ordering information

[Catalog size quantities and prices may be found at www.interchim.com/](http://www.interchim.com/)

Please inquire for higher quantities (availability, shipment conditions).

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