

SUMMARY

shipped at RT; store at 4 °C

For research use only

Alkaline phosphatase from calf intestine.

No nicking, ribonuclease, or deoxyribonuclease activities.

G3m: 24 µg (100 units) phosphatase per CR-column immobilized on dextran.

Nr. 15 Storage buffer: 50 mM Tris/HCl, pH 8.0

Nr. 18 Reaction buffer: 50 mM Tris/HCl, 0.1 mM ZnCl₂, 1 mM MgCl₂ pH 8.0

For longer molecules use higher temperatures (37 °C up to 50 °C) Take the column in an incubator or pre-warmed buffers

Nr. 17 Washing buffer: 50 mM Tris/HCl, 1 M NaCl, pH 8.0

Protocol

For more details see MoBiTec-CRC-Handbook.

1. Dilute delivered buffers (at least 2 ml each) with sterile doubly distilled water.

For 1 application you need:

2 ml 5x reaction buffer and 8 ml doubly distilled water

2 ml 5x washing buffer and 8 ml doubly distilled water

1 ml 10x storage buffer and 9 ml doubly distilled water

The substrate should be in reaction buffer

2. Equilibrate the CR-column with 10 ml reaction buffer.

Fill 10 ml reaction buffer into a syringe, let the reaction buffer run through the column by gravity to the upper filter. In case the buffer runs very slowly, apply pressure by a syringe.

3. Load substrate solution in reaction buffer.

Small volumes (< 70 µl): spin the CR-column 5 seconds in a benchtop centrifuge (2000 rpm are sufficient). Let the substrate solution enter the matrix material.

Larger volumes: Let the substrate solution run through the column.

Flow-rate: up to 70 µl/minute

Keep the substrate in the column for about 1 minute at room temperature. Higher turn-over is obtained when the substrate is applied to the column again or incubated for longer times.

4. Elute the product solution.

Small volumes (< 70 µl): centrifuge the product out of the column.

Larger volumes: Let the substrate run through the column and spin the residual solution out of the matrix

Notice: Molecules < 700 Dalton have to be eluted with 7 ml reaction buffer.

It does not harm the columns if they run dry.

5. Wash the column with 10 ml washing buffer.

6. Equilibrate the column with 10 ml storage buffer.

Store the column at 4 °C.

Never freeze a CR-column!

Alkaline Phosphatase (CIP) (one Column with 200 µl matrix G3m)

Product Information Sheet
A3202



Order Information, Shipping and Storage

Order#	Product	Quantity
A3202	Alkaline Phosphatase (CIP) (one Column with 200 µl matrix G3m)	100 U
shipped at RT; store at 4 °C		

Contact and Support

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MoBiTec in your area: Find your local distributor at www.mobitec.com