

SUMMARY

shipped at RT; store at 4 °C

For research use only

Alkaline phosphatase from calf intestine.
No nicking, ribonuclease, or deoxyribonuclease activities.
F7m: 0.24 mg (1000 units) phosphatase per CR-column immobilized on Polyvinyl.

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:

0.5 ml 5x reaction buffer and 2.0 ml doubly distilled water
0.4 ml 5x washing buffer and 1.6 ml doubly distilled water
0.2 ml 10x storage buffer and 1.8 ml doubly distilled water
The substrate should be in reaction buffer

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

Fill 2 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 (< 80 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 80 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 (< 80 µl): Elute the product with 500 µl reaction buffer.

Larger volumes: Let the substrate run through the column and elute the residual product solution with 500 µl reaction buffer.

It does not harm the columns if they run dry.

5. Wash the column with 2 ml washing buffer.

6. Equilibrate the column with 2 ml storage buffer.

Store the column at 4 °C.

Never freeze a CR-column!

Alkaline Phosphatase (CIP) (one Column with 200 µl matrix F7m)

Product Information Sheet
A5201



Order Information, Shipping and Storage

Order#	Product	Quantity
A5201	Alkaline Phosphatase (CIP) (one Column with 200 µl matrix F7m)	1,000 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