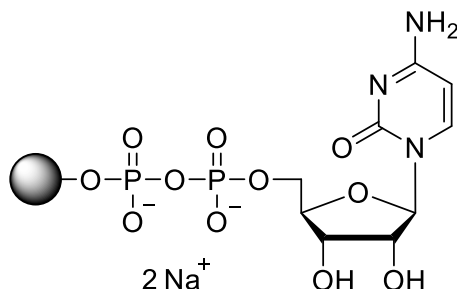


Technical Information about CDP-Gel

Immobilized Cytidine-5'-O-diphosphate

Update: October 29, 2018 HU



Abbreviation: CDP-Gel (syn. CDP-Agarose)

BIOLOG Cat. No.: C 128

Description: Cytidine-5'-O-diphosphate (CDP) has been immobilized on a polymeric matrix via the terminal phosphate.

Properties: CDP-Gel is suitable for the affinity purification of sialyltransferases.

Related Products: BIOLOG also offers immobilized guanosine-5'-O-diphosphate (GDP-Gel, Cat. No. G 028) and uridine-5'-O-diphosphate (UDP-Gel, Cat. No. U 017).

Specification: Suspension in 30 mM Na₂HPO₄ buffer (pH 7). Ligand density: approximately 62 μmol/g of gel (dry basis). UV: λ_{max} 271 nm/suspension in glycol.

Stability and Storage: CDP-Gel has sufficient stability for chromatography at ambient temperature and does not need special care during handling or shipment. Nevertheless, for longer storage periods the gel should be kept in the refrigerator at 4 - 8°C. **Storage buffer should contain 0.1% sodium azide for prevention of microbial growth.**

Chromatography: Recommended conditions for the purification of sialyltransferases are

- Binding: 10 mM MES, 25% glycerol, pH 6.8;
- Elution: linear salt gradient 0 - 1.0 M NaCl.

Regeneration of the gel may be achievable by incubation with 8 M urea or other chaotropic agents and subsequent washing with a suitable buffer.

Toxicity and Safety: Please keep in mind that the *in vivo* properties of this compound are not sufficiently characterized up to now. Avoid skin contact or ingestion and allow only trained personnel to work with it.

Our products are designed, developed and sold for research purposes only. They are intended for *in vitro* and non-human *in vivo* laboratory applications. Any other use requires approval of health authorities.

Not for drug, household or related uses!

Selected References for CDP-Gel:

Sadler, J.E.; Beyer, T.A.; Oppenheimer, C.L.; Paulson, J.C.; Prieels, J.P.; Rearick, J.I.; Hill, R.L., *Methods Enzymol.*, **83**, 458 - 514 (1982): "Purification of Mammalian Glycosyltransferases"

Paulson, J.C.; Beranek, W.E.; Hill, R.L., *J. Biol. Chem.*, **252**, 2356 - 2362 (1977): "Purification of a Sialyltransferase from Bovine Colostrum by Affinity Chromatography on CDP-Agarose"