

**Calcium Chloride, 2M  
(Molecular Biology Grade)**

<b>Catalog #:</b>	351-130-721EA	100mL
	351-130-721	Pack 4 x 100mL
<b>Store at:</b>	15°C to 30°C	
<b>Shipped at:</b>	ambient temperature	

**Description**

Quality Biological's (QBI) Calcium Chloride, 2M is prepared from biotechnology grade calcium chloride ( $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ ) using Quality Biological's Molecular Biology Grade (MBG) Water. The final product is sterile filtered through a 0.1 $\mu\text{m}$  filter membrane.

**Applications**

Calcium chloride, a divalent metallic salt, is employed in many molecular biology applications where enzymes, such as DNA polymerase I and T4 polynucleotide kinase are required. The following are examples of where Calcium Chloride 2M may be usefully employed:

- *Preparation of competent E. coli*<sup>1</sup>
- *Transformation of bacteria*<sup>3</sup>

**All products sold by Quality Biological are intended for research use only. This product has not been approved for diagnostic or IVD use.**

**Quality Control***General*

All Quality Biological products for Molecular Biology are prepared according to standard published protocols.<sup>1,2</sup> All products are subjected to a variety of quality control procedures, including pH and osmolality determinations in order to validate the product is within its specifications.

*Product Specific Testing*

Calcium Chloride 2M is routinely tested for the absence of DNase, RNase, and Protease activity.

Test results of individual lots of Calcium Chloride 2M are available on the Quality Biological website.

**References**

1. Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning, A Laboratory Manual*, 2<sup>nd</sup> Ed. Cold Spring Harbor Laboratory Press.
2. Ausubel, F.M. et al., eds. (1993), *Current Protocols in Molecular Biology*, Greene Publishing Associates, Inc., in association with John Wiley & Sons, Inc.
3. Davis, L.G., Dibner, M.D., & Battey, J.F. (1986) *Basic Methods in Molecular Biology*, Elsevier Science Publishing Company, Inc.

**Related Products****DEPC Treated Water**

Catalog #	351-065-721EA	100mL
	351-068-721	Pack of 4 x 100mL
	351-068-131	1000mL
	351-068-131CS	10 x 1000mL
	351-068-491	4 Liters
	351-068-151	10 Liters
	351-068-161	20 Liters

**Molecular Biology Grade Water**

Catalog #	351-029-721EA	100mL
	351-029-721	Pack of 4 x 100mL
	351-029-101	500mL
	351-029-101CS	10 x 500mL
	351-029-131	1000mL
	351-029-131CS	10 x 1000mL
	351-029-491	4 Liters
	351-029-151	10 Liters
	351-068-161	20 Liters