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## DATASHEET

EGTA

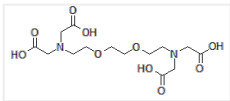
### Product overview

<b>Name</b>	EGTA
<b>Cat No</b>	HB4708
<b>Biological description</b>	EGTA is a calcium specific chelator and has lower affinity for magnesium than EDTA. It is commonly used in the buffering of calcium ions in physiological solutions.
<b>Biological action</b>	Reagent
<b>Description</b>	Calcium specific chelator

### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in NaOH (aq)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	Ethylene glycol-bis(2-aminoethylether)-N,N,N,N-tetraacetic acid
<b>Molecular Weight</b>	380.4
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>24</sub> N <sub>2</sub> O <sub>10</sub>
<b>CAS Number</b>	67-42-5
<b>PubChem identifier</b>	6207
<b>SMILES</b>	C(COCCOCCN(CC(=O)O)CC(=O)O)N(CC(=O)O)CC(=O)O
<b>InChi</b>	InChI=1S/C14H24N2O10/c17-11(18)7-15(8-12(19)20)1-3-25-5-6-26-4-2-16(9-13(21)22)10-14(23)24/h1-10H2,(H,17,18)(H,19,20)(H,21,22)(H,23,24)
<b>InChiKey</b>	DEFVIWRASFVYLL-UHFFFAOYSA-N
<b>MDL number</b>	MFCD00004291

### References

#### A simple method for the accurate determination of free [Ca] in Ca-EGTA solutions

Bers DM (1982) Am J Physiol 242(5)

**PubMedID** [6805332](#)

#### EGTA purity and the buffering of calcium ions in physiological solutions

Miller DJ *et al* (1984) Am J Physiol 246(1 Pt 1)

**PubMedID** [6421170](#)

#### The addition of calcium ion chelator, EGTA to thawing solution improves fertilizing ability in frozen-thawed boar sperm

Okazaki T *et al* (2011) Anim Sci J 82(3)

**PubMedID** [21615834](#)

