

MICROCENTRIFUGE TUBES LOW BINDING

Microtubes 0.5, 1.5 and 2.0 ml Low Binding CLEARLock® CLEARLine®

Low Binding CLEARLine®

"Be cool, be safe, be CLEARLine"

Minimize sample loss!

Low Binding CLEARLock® CLEARLine® Microtubes

The sample loss during handling where volumes are small, concentrations are low or in any applications where processing steps are extensive is a very crucial point for the success of the analysis.

With the aim of **preventing potential interactions between analytes and tubes**, Biosigma has created the new Low Binding CLEARLock® CLEARLine® Microtubes line.

The new Microtubes are **performed to minimize protein and nucleic acid loss** avoiding any surface coating e.g., silicone etc. Biosigma Low-bind material ensures optimal sample recovery for best and reproducible results **reducing the risk of interference** with the samples.

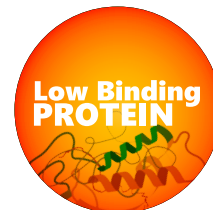
The low Binding Protein and DNA Microtubes are **designed to minimize protein and DNA loss** particularly essential for low concentration samples, providing the ideal solution for both sample preparation and long-term storage.

Each batch is certified free from human DNA, DNase, RNase, ATP, endotoxins, and PCR inhibitors.

MAIN CHARACTERISTICS:

- Maximum Nucleic Acid and Protein recovery rates
- Hinged lid prevents any unintentional opening during use
- Precise lid sealing avoids evaporation during long-term storage
- Pierceable writing cap
- Optimal transparency
- Centrifuged at:
 - 0,5ml - 1,5ml - 2,0ml 17,500 rpm - 30,000 x g
- Temperature of use: -80°C + 100°C
- Autoclavable open at +121°C for 20 minutes
- Zip bags, re-closable
- Graduated with writing area
- Particularly suitable for application in PCR and other applications in molecular biology
- Human DNA, DNase, RNase, Pyrogen, ATP, PCR inhibitors free certified*
- In Polypropylene Medical Grade, Non Cytotoxic – Non Hemolytic
- Recommended for the storage of chemical and biological samples

* Certificate of analysis available for download on www.biosigma.com



CLEARLine®
"Be cool, be safe, be CLEARLine"



Biosigma S.p.A. Dominique Dutscher Group

📍 Biotechnology 📍 Clinical Chemistry items

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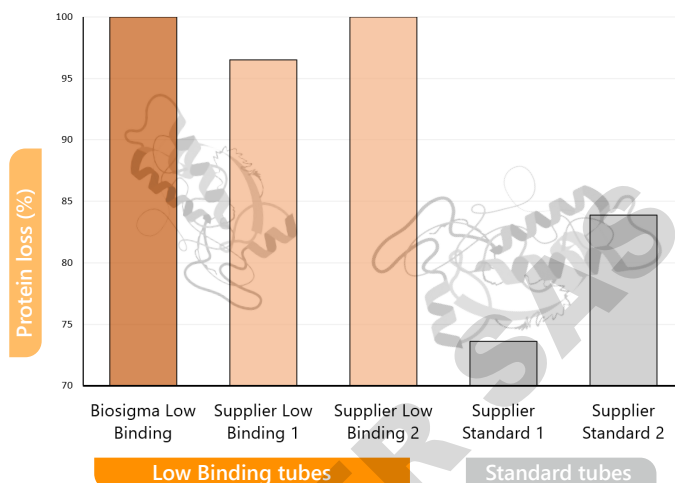
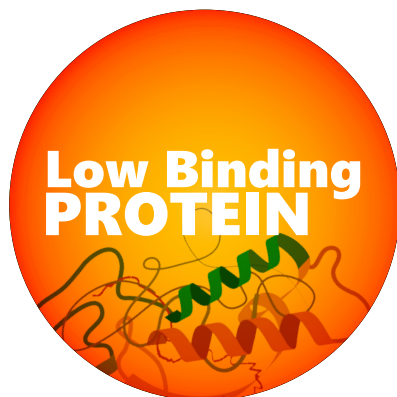
🌐 www.biosigma.com

MICROCENTRIFUGE TUBES LOW BINDING

Protein recovery with Low Binding Protein CLEARLock® CLEARLine® Microtubes compared with other suppliers.

Test procedure:

- Low Binding protein CLEARLock® CLEARLine® Microtubes from Biosigma, suppliers 1 and 2 (Low binding and standard) were filled with an aqueous BSA solution and cytoplasmatic protein lysate in a concentration of 40ng/ml and stored at 4°C for 24hrs.
- After the incubation, proteins were extracted, concentration determined by Bradford assay, values normalized for Biosigma Microtubes recovery and used to generate the following graphic.
- 3 independent experiments were performed.
- Average recovery $\geq 21,2\%$ compared to standard tubes.



Microtube in PP with locking system, Protein Low Binding

CAT. NO.	Color		Volume (ml)	Internal packaging	Sale unit
CL05.0100PLB	neutral	Protein Low Binding	0.5	bag/100	500
CL15.0050PLB	neutral	Protein Low Binding	1.5	bag/50	200
CL20.0050PLB	neutral	Protein Low Binding	2.0	bag/50	200

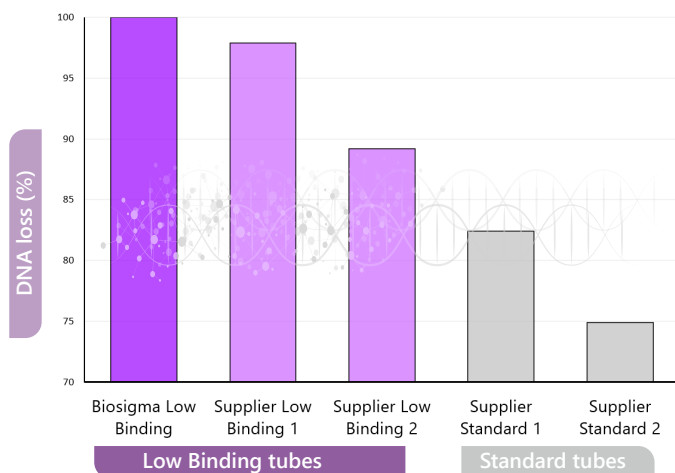
Maximum protein and DNA recovery rates
Safety cap with writing area and pierceable
Optimal transparency

Free from human DNA, DNase, RNase, ATP, endotoxins, and PCR inhibitors

DNA recovery with Low Binding DNA CLEARLock® CLEARLine® Microtubes compared with other suppliers

Test procedure:

- Low Binding DNA CLEARLock® CLEARLine® Microtubes from Biosigma, suppliers 1 and 2 (Low binding and standard) were filled with 3,5ng/μl and 0,35ng/μl of Human Nuclear DNA and stored at -80°C for 24hrs.
- After the incubation, 5 and 10 μl of DNA solution were amplified by PCR (35 and 40 cycles), the intensities of bands were calculated using ImageJ, values normalized for Biosigma Microtubes amplified products, and used to generate the following graphic.
- 3 independent experiments were performed.
- Average loss of standard tubes $\geq 21,3\%$



Microtube in PP with locking system, DNA Low Binding

CAT. NO.	Color		Volume (ml)	Internal packaging	Sale unit
CL05.0100DLB	neutral	DNA Low Binding	0.5	bag/100	500
CL15.0050DLB	neutral	DNA Low Binding	1.5	bag/50	200
CL20.0050DLB	neutral	DNA Low Binding	2.0	bag/50	200