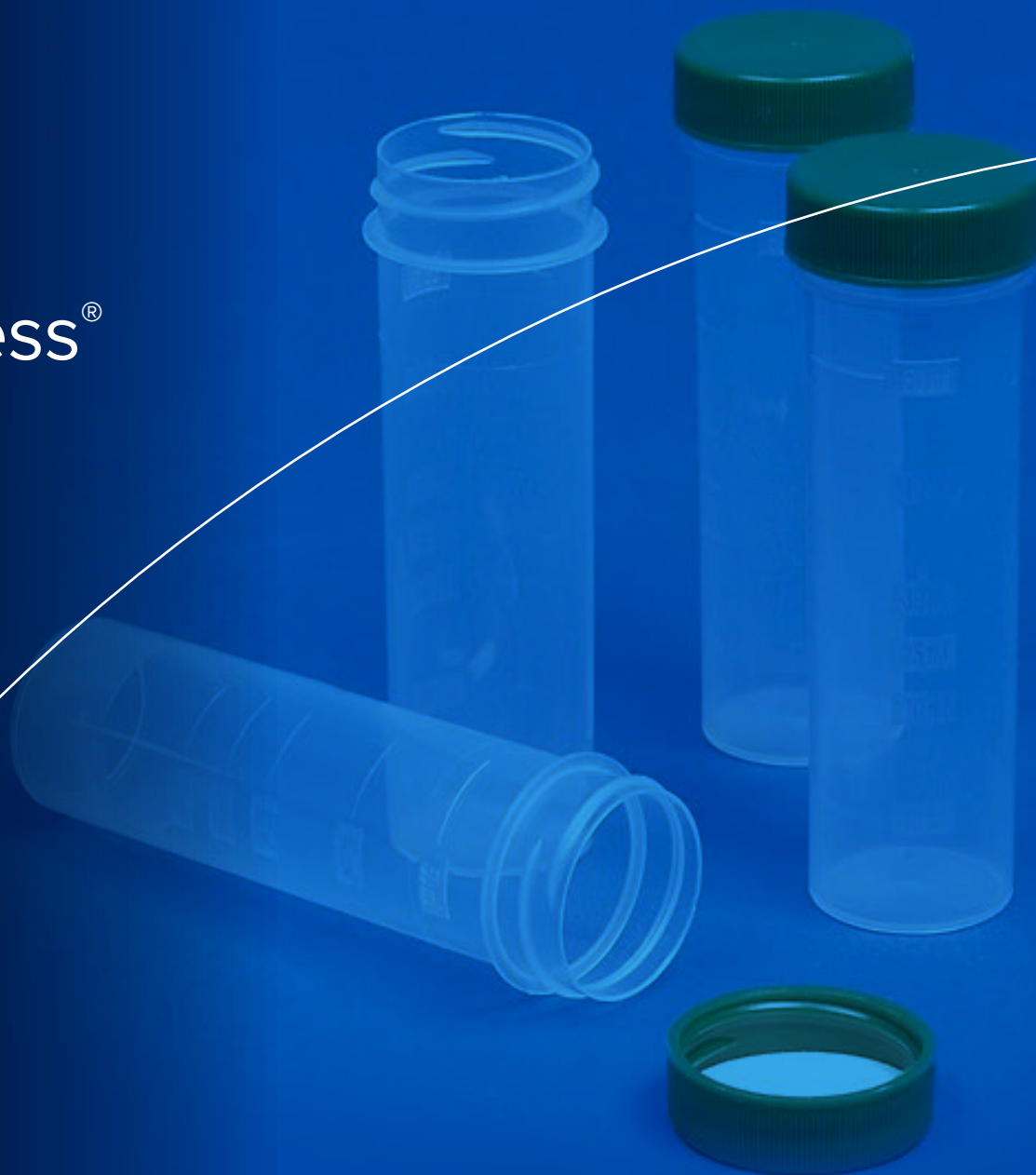


Environmental Express[®] Proprietary Caps Product Guide



Environmental Express® Proprietary Caps

All Environmental Express® new proprietary caps are liner-less and manufactured from the high-quality resin used to manufacture the Environmental Express® digestion tubes (formerly known as Digestion Cups). These caps are very clean and perfect for metals digestion workflows.

To support environmental test lab technicians to designate various samples in their labs, Environmental Express® offer a range of options of cap colours. The new Environmental Express® proprietary range of caps includes:

- Natural (colourless) cap: 53203-17
- Red (UC475-RD) : 65003-89
- Orange (UC475-OR) : 67002-01
- Pink (UC475-PK) : 67002-02
- Yellow (UC475-YL) : 65003-94

Because Environmental Express® puts the safety of the environment first, they use only organic dyes with no metals used to create the various colours. Colours such as blue contain metal – Cobalt. To keep the integrity of the caps, Environmental Express® have avoided making caps in metal contaminated colours. Taking this precautionary approach a step further Environmental Express® have also removed the cap liner as a potential source of further contamination.

What's the difference?

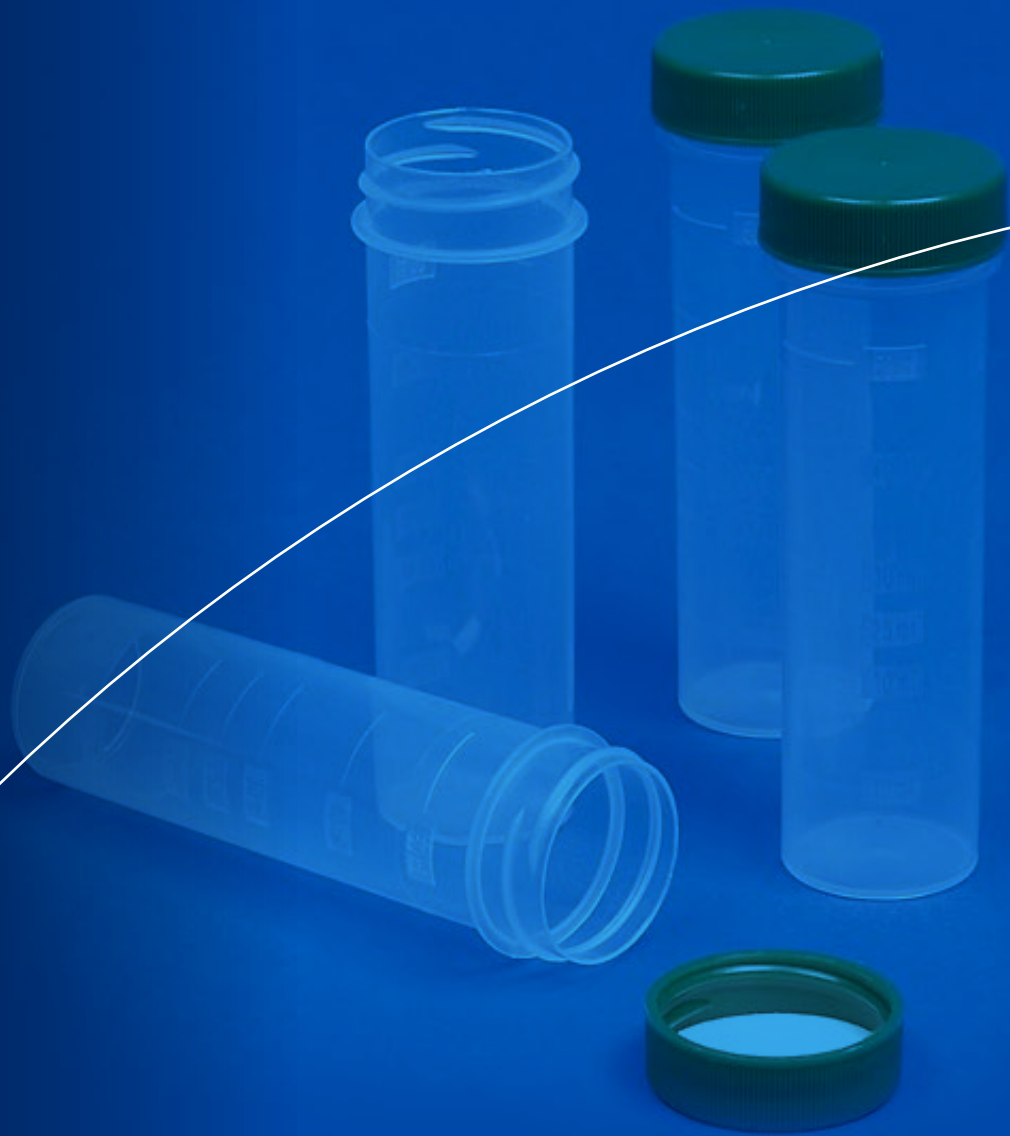
The main difference between the new proprietary caps and the existing caps is how the cap seals to the tube. The typically supplied green and white caps use a liner to seal to the tube. As the cap is threaded onto the tube the lip of the tube interacts with the liner, which creates the seal.

However, Environmental Express self-manufactured caps work differently and offer reduced contamination risk.

The cap has a ridge inside the diameter of the cap that leaves a very small gap between that ridge and the wall of the cap. The lip of the cup fits in between that ridge and the cap wall and when the cap is tightened down it pinches the lip of the tube. This is similar in how the caps on water bottles or soft drinks bottles work and has become an industry standard with caps. Both styles work well and produce a scenario where liquid will not leak from Environmental Express digestion tubes, even during transport.



Cap on the left (A) uses a liner. The Environmental Express proprietary colour cap (B) uses a moulded thread to seal to the tube.



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