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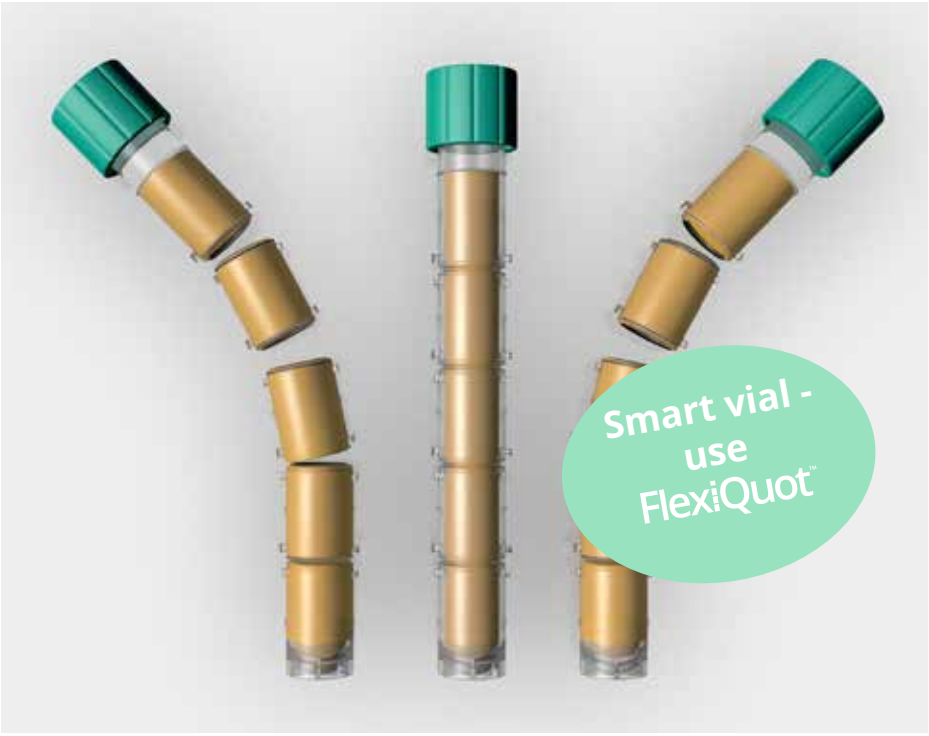
FlexiQuot™

A new sub-dividable cryo-tube to address the problems of storing and handling frozen samples. The new FlexiQuot™ combines the flexibility of several 1 ml. cryo-tubes with the cost effectiveness of one 5 ml. cryo-tube.



Intellectual Property: The FlexiQuot™ is protected by patents
Danish design and Swiss quality

1CryoBio AG

1CryoBio AG is based on Danish design and Swiss quality to improve storage and handling of biological material. 1CryoBio AG develops, produces and markets dividable laboratory plastic ware and accessories for cryogenic storage of biological material. The first product is a novel system that allows removing clearly defined segments of a frozen sample without impacting the remaining bio material. This system is called FlexiQuot™ and is currently available in 5 ml and soon in smaller volume vials.

Market Applications and intended use

FlexiQuot™ is invented by leading Danish scientists specializing in biomarkers at the clinical Research Centre, Hvidovre Hospital. The cryo-tube is easily divided into subsections by use of a break tool operated by hand. One or more subsections can be broken off while the sample remains frozen. The sample material in the broken-off subsections is thawed and used for analysis, while the material in the remaining subsections is kept frozen and used for analysis at a later date. Each sample can thereby be used for multiple analyses without deteriorating the quality of the sample material from repeated thawing and refreezing.

Need

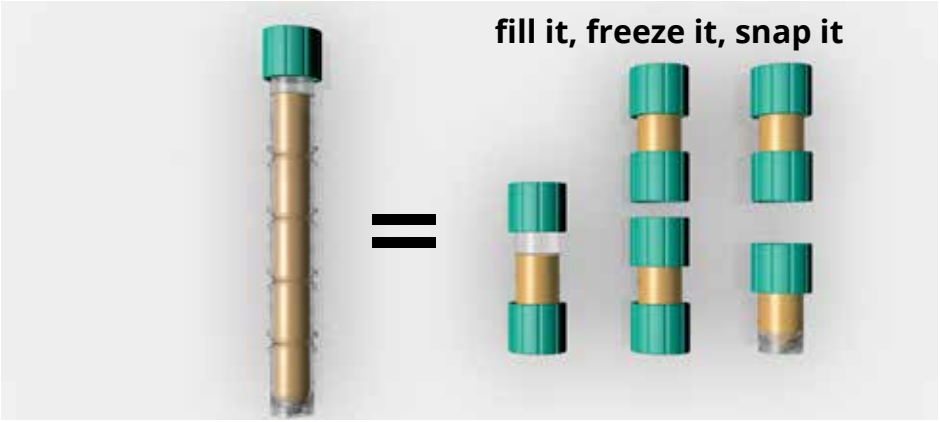
- The continuous advances in biomarker research make it impossible for scientists to predict how biological sample material can be fully utilized when the material is collected and stored.
- In order to make optimal use of their limited and valuable sample material scientists needs storage tools that easily allow for flexibility, so that new and future research opportunities can be pursued.
- Traditionally handling of a large amount of 1ml tubes is cumbersome and time consuming and requires a big volume of storage place.
- Repetitive freezing / thawing of 5 ml biological material destrys the sample quality.

Solution

- FlexiQuot™ combines the flexibility of the 1 ml. Cryo-tube with the cost effectiveness of the 5 ml. Cryo-tube and is the first product defining the next generation in cryo-tubes for biomarker research.

Key Benefits

- Improves labor efficiency
- Reduces contamination
- Increases long-term sample handling flexibility
- Increases sample tracking efficiency
- Improves freezer storage efficiency
- Makes it easy to give away a sample to other researchers
- Increases sample quality and stability



Specification, Quality and Interfaces

- Volume 5 ml *
- Dividable into 5 subsections of 1 ml
- Temperature up to – 196° C
- Labeling
- Snapping tool and holder
- Bayonet connector including locker
- Max. 9 caps used per tube
- Storage system

QA / QC

- Secure ID of every subsection
- Non-pyrogenic
- Sterile
- Sealed
- Free of detectable endotoxins
- Free of detectable DNAse and RNAse
- Functionality and performance tests

Sample integrity and quality remain unchanged

- Concentrations of small molecules and electrolytes in plasma samples in divided subsections of FlexiQuot™ have been analyzed after beingfrozen and thawed and compared with the concentrations in the complete sample prior to freezing. Test result: No sedimentation across the dividable subsections of the FlexiQuot™.
- The subsections can be divided easily when using the break snapping tool, irrespective of whether it is the first subsection .

* Length 110 mm with cap / outer diameter 11 mm / outer diameter with closure 13 mm / inner diameter 9 mm

WARNING: Do not use Cryovials for storage in the liquid phase of liquid nitrogen. Such use may cause entrapment of liquefied nitrogen inside vial and lead to pressure bild-up resulting in possible explosion or biohazard release. Use appropriate safety producers when handing and disposing of vials.