

Recommendation for Storage of Frozen Serum, Sterile Filtered (Animal Origin)

For cell growth purposes

It is recommended to store the serum in a freezer / cold store at -15°C to -30°C (-20°C laboratory freezer). Prior to use, thaw quickly, preferably to 8°C and no warmer than room temperature.

For microbiological purposes

Serum can be stored in the short term at 2-8°C but should be used within one month at this storage temperature. It is recommended that longer term storage be at -15°C to -30°C.

On storage at 2-8°C opacity may appear, which is due to the coalescence of micro-globules of fat normally present in serum in varying amounts. The opacity does not affect the microbiological function of the serum.

Storage upon receipt where serum has thawed:

Where serum has partially thawed the level of thawing must be assessed before storing at freezer temperature:

- If no liquid serum is evident at serum/air interface the serum can be safely stored at freezer temperature.
- If liquid serum is evident DO NOT re-freeze in this state.

Where liquid serum is evident allow the serum to thaw completely under controlled temperature conditions of no greater than 8°C.

Alternatively, thaw rapidly in water bath at 30°C with regular gentle inversion until a small ball of ice remains. Serum temperature must not rise above 8°C.

Thoroughly mix contents by gently inverting the bottles.

Vigorous mixing will create unsightly serum frothing.

Immediately re-freeze to -20°C and store at this temperature until required.

Multiple freeze/thaw cycles must be avoided to minimise the risk of precipitation of concentrated proteins and lipids.

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Issue 5 2008.08



FS28907
BS EN ISO9001:2000

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