

Attachment 3 - Recommended Preservation Methods

General

Choose storage vessel in accordance with storage conditions and size of human biological material; choose labelling and printing systems that will be stable under the long-term storage conditions

DNA preservation

Conservation in -20°C container or lower temperature

Freeze drying

Filter paper (eg Guthrie cards) and QC

Tissue

Paraffin embedded samples, conservation at room temperature (below 27°C, 4°C for RNA integrity)

Cryopreservation of samples, storage in -80°C freezers or liquid nitrogen (liquid or gas phase)

Isolated cells

Cryopreservation in or above liquid nitrogen or in ultra-low temperature (-150°C) freezer

Cryopreservation in -80°C container only for short periods

Cell lines

Cryopreservation in freeze medium (containing cryoprotectant like Dimethyl sulfoxide), in or above liquid nitrogen or in ultra-low temperature (-150°C) freezer