Report for QIS OQI as of 28/06/2022 10:39:52 AM

Report for QIS OQI -

19349 No Title Provided

OQI Details

Status	Closed Approved
Subject	Negative extraction control 346790262 from extraction batch CWIQEXT20080225_02 has shown a DNA profile below 75 RFU threshold.
Source of OQI	Internal Problems (QHPSS)
Date Identified	23/04/2008

OQI Creator Contact Details

Creator	Allan MCNEVIN
Organisational Unit/s	Analytical
Service/s	
Site Location/s	Coopers Plains

Investigator/Actioner Contact Details

Actioner	Allan MCNEVIN
Organisational Unit/s	Analytical
Service/s	
Site Location/s	Coopers Plains

Investigation Details

Investigation Completed 23/04/2008 **Root Cause Type** Procedure/Method/Process

Investigation Details

During the Genescan analysis of the negative extraction control (barcode [redacted] of extraction batch CWIQEXT20080225_02, it was noted that there was the potential presence of a DNA profile, however peaks observed were below the 75RFU threshold. The batch was re-prepared and the negative extraction control was re-amplified immediately to confirm the presence of DNA within the sample. Both the original amplification and re-amplified samples were re-analysed with a 30RFU threshold. When analysed at the lowered threshold the partial DNA profiles contained within the negative extraction control were consistent with the positive extraction control used. All alleles within the positive extraction control were present in at least one of the amplifications of the negative extraction control. The two samples, positive and negative extraction controls, were processed in adjacent well positions at each stage of the process up to completion of the first amplification of the negative extraction control. Therefore contamination of one into the other may have occurred at any stage from use of the STORstar, through extraction on the MPII, to processing of the quantification batch (including decapping and recapping) up to the addition of DNA extracts during the preparation of the amplification batch on the MPII. At each of these stages, extensive validation and large numbers of routine samples have been processed with no problems detected. It is therefore not possible to determine

	the exact point where the contamination has occurred. In addition, the level of transference has been very low. When considering the DNA concentration of the DNA extract from positive extraction control (2.59ng/uL), a very small amount of this DNA extract (approximately 0.25uL) may have been sufficient to have been transferred to the DNA extract of the negative extraction control to display the low level of DNA profile observed.
Preformed By	Quality Information System

Action Details

Action Complete	23/04/2008	**Action Fix Type**	Changed Process
Title		**Action Description**	Once the presence of the low-level contamination was confirmed, specimen notes and batch audit entries were made in AUSLAB against the extraction batch and all of the samples contained within the extraction batch. The team leaders of the teams in major crime and volume crime that had samples on the extraction batch were also notified of the presence of the low-level contaminant. The issue was discussed at the next available Analytical team meeting and will be re-visited at the next Analytical team meeting A review of the MPII extraction procedure is currently under way, in addition current processing does not involve the STORstar instrument and involves the use of two positive and two negative extraction controls per extraction batch.

Task Details

No Tasks found

Follow-up And Approval

Follow-up Status	Accepted
Follow-up Status Comment	23/04/2008 3:37:17 PM Allan MCNEVIN: No comment was recorded
Approver	Cathie ALLEN
Approval/ Rejection Date	25/04/2008
Approval/ Rejection Comment	25/04/2008 12:00:00 AM Catherine ALLEN: No comment was recorded

Associations

No Associations found

Records

No Records found

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