

偏差报告 Deviation Report

PR#: 4174

Deviation No.:D-2020-0221

Record Status: Closed-Done

基本信息 General Information

厂区 Division: Innovent Biologics (Su Zhou) Co., Ltd

发起人 Originator: 陆, 志阳(PID-000109)

发起日期 Date Opened: 2020.07.27

简短描述 Short Description:

M1b DS2 150L生物反应器pH电极故障 M1b DS2 150L bioreactor pH electrode failure

到期日期 Date Due: 2020.07.28

关闭日期 Date Closed: 2020.07.28

偏差信息 Deviation Information

发现人 Discovery By: 陆志阳05020015

发现日期 Discovery On: 2020.07.26

汇报人 Report By: 陆志阳05020015

汇报日期 Report On: 2020.07.26

发生部门 Occurred Department: M1b DS2

汇报部门 Report Department: M1b DS2

偏差描述 Deviation Description:

2020.07.26 生产部人员 (05020015) 在细胞培养间 (25D08) 按照《IBI188 (CD47) 单克隆抗体注射液M1b3000L原液细胞培养及收获批生产记录》(BPR100411) P24 “用血气分析仪检测IBI188基础培养基pH; 校正pH至外测pH值”的要求对150L生物反应器 (MFG-M1b3-054) 进行pH校准, 发现M800上不显示在线pH值, 如附件1 图1所示; 生产人员在进行过程校准时, M800显示 “校准没有完成”, 如附件1图2所示, 无法按照批记录要求进行pH校准。故发起偏差。

描述的附件 Description attachment:

附件1 偏差描述附件.docx

是否及时上报? Reporting in Time?: Yes

未及时上报的理由 Reason for not in Time:

已采取的即时措施 Immediately Action Taken:

07/28/2020 02:35 PM (GMT+8:00) added by 志阳 陆 (PID-000109):

更正及时措施1完成时间, 实际完成时间为2020.07.26

07/27/2020 10:54 AM (GMT+8:00) added by 志阳 陆 (PID-000109):

1.称量组重新申领记录,重新称量IBI188基础培养基用物料/MFG/2020.07.27

2.培养基配置组重新申领记录,重新清洗培养基配制罐, 并配制IBI188基础培养基/MFG/2020.07.27

3.细胞培养组重新申领记录,将150L反应器中现有的培养基进行排废处理, 并重新清洗150L反应器/MFG/2020.07.27

即时措施附件 Immediately Action Attachment:

附件5 即时措施3完成证明.pdf

附件4 即时措施2完成证明.pdf

附件3 即时措施1完成证明.pdf

厂房设施名称 Facility Name:

产品所属阶段 Product Phase:

M1b

Clinical

初步影响/风险评估Initial Impact/Risk Assessment

产品影响评估 Product Impact Assessment:

偏差调查:

2020.07.26生产人员 (05020015) 在细胞培养间 (25D08) 操作时发现M800上pH值无法显示, 而此时批记录BPR100411的P24中下一步操作指示是 “用血气分析仪检测IBI188基础培养基pH; 校正pH至外测pH值”, 生产人员想尝试通过批记录中校正pH的操作来完成校正, 使M800显示正常。但生产人员在按照批记录要求校正pH时, M800出现了 “校准没有完成” 的提示。经MST、MFG和pH电极厂家工程师排查后, 发现用其他电极信号线与该电极连接时, M800上的pH值也同样不显示; 另发现M800上显

偏差报告
Deviation Report

PR#: 4174

Deviation No.:D-2020-0221

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示该电极的DLI（动态电极寿命指示）为零，数据条显示为红色（如附件2图1所示DLI数值为零）。经现场人员回顾，在使用该pH电极前已按照《M1b车间pH、DO电极使用维护保养操作规程》（SOP200563）6.1.2章节所述内容，观察并确认光学帽完好，且在DLI有效期内，并进行了记录（见附件2图2电极使用记录）。使用前pH电极校准时的DLI数据条显示正常（绿色），且校准数据无异常（见附件2图3电极校准记录）。根据厂家工程师判断，发生这种情况为pH电极故障引起。发生故障的pH电极属于质量问题，为偶发事件，后续会通过SAP系统发起报修流程，将该pH电极返厂进行调查，明确故障原因。

影响评估：

偏差发生时150L生物反应器中为IBI188基础培养基，尚未进入培养阶段。经QA、MST和MFG会议沟通，考虑到150L反应器培养阶段需关联底通CO2进行pH控制，如果pH电极故障则培养体系pH将不能得到控制。基于pH失控的风险，故决定将150L生物反应器（MFG-M1b3-054）中培养基排掉，校准并更换新pH电极。同时重新配制培养基并对150L反应器重新进行前处理及培养基接收，按照批记录的正常流程处理完成后进行150L反应器的接种，故本次pH电极的故障对细胞培养和后续生产未产生影响。

生产/检测的影响评估 Production/Testing Impact Assessment:

N/A

其他影响评估描述 Other Impact Assessment Description:

N/A

初步影响评估附件 Initial Impact Assessment Attachment:

附件2 初步影响评估附件.docx

偏差分级 Deviation Classification

偏差严重性 Deviation Severity:

偏差发生时150L生物反应器中为IBI188基础培养基，尚未进入培养阶段。基于pH失控的风险，已将150L生物反应器（MFG-M1b3-054）中培养基排掉，校准并更换新pH电极，同时重新配制培养基并对150L反应器重新进行前处理及培养基接收，故本次pH电极的故障对细胞培养和后续生产未产生影响。

偏差发生率 Reoccurrence Probability of Deviation:

过去12个月内没有类似缺陷发生（搜索关键词：150L生物反应器、pH电极、故障）

偏差分级 Deviation Classification: Minor

分级的理由 Reason for Classification:

07/28/2020 02:54 PM (GMT+8:00) added by 禎 吴 (PID-000094):

本偏差未对细胞培养和后续生产产生影响，并且过去12个月内没有类似缺陷发生，故定义为次要偏差。

是否需要调查？ Investigation Required?: No

主调查人 Lead investigator:

不需要调查的理由 Reason for not Investigation:

本偏差根本原因明确，且未对产品质量和后续生产产生影响，故无需进一步调查。

调查总结&根本原因分析 Investigation & RCA

调查总结 Investigation Summary:

调查附件 Investigation Attachments:

根本原因分析 Root Cause Analysis:

根据厂家工程师判断，发生该情况为pH电极故障引起。发生故障的pH电极属于质量问题，为偶发事件。

根本原因分析附件 Root Cause Analysis Attachment:

偏差报告 Deviation Report

PR#: 4174

Deviation No.:D-2020-0221

Record Status: Closed-Done

原因描述 Cause Description: pH电极故障		
原因分类 Cause Category Machine	原因子分类 Cause Sub-Category Facility/Utility/Equipment/Instrument Breakdown	原因归属部门 Cause Department M1b DS2
缺陷描述 Defect Description: 2020.07.26 生产部人员 (05020015) 在细胞培养间 (25D08) 按照《IBI188 (CD47) 单克隆抗体注射液M1b3000L原液细胞培养及收获批生产记录》(BPR100411) P24 “用血气分析仪检测IBI188基础培养基pH；校正pH至外测pH值”的要求对150L生物反应器 (MFG-M1b3-054) 进行pH校准，发现M800上不显示在线pH值，如附件1 图1所示；生产人员在过程校准时，M800显示 “校准没有完成”，如附件1图2所示，无法按照批记录要求进行pH校准。故发起偏差。		
缺陷类型分类 Defect Category Production/Process	缺陷类型子分类 Defect Sub-Category Operation	

是否是重复偏差 Repeat Deviation? : No

判定重复偏差的原因 Justification for Repeat Deviation:

过去12个月内没有类似缺陷发生 (搜索关键词：150L生物反应器、pH电极、故障)

重复偏差的原因描述 Reason of Repeat Deviation Description:

相关的重复偏差 Repeat Deviation Records

PR#	deviation#	简短描述 Short Description	Record Status
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最终影响/风险评估 Final Impact/Risk Assessment

对产品质量的影响 Impact on Product Quality:

对其他批次的影响 Impact on Other Batches:

对系统/设备的影响 Impact on System/Equipment:

对验证状态的影响 Impact on Validation State:

对产品注册的影响 Impact on Product Registration:

对法规符合性的影响 Impact on Regulation Compliance:

对稳定性的影响 Impact on Stability:

对其他方面的影响 Impact on Other Aspects:

PR#: 4174

Deviation No.:D-2020-0221

Record Status: Closed-Done

受影响的部门 Impact Departments:

影响/风险评估附件 Impact/Risk Assessment Attachment:

受影响的产品信息 Impacted Product Information

产品最终处置建议 Product Disposition Proposal:

产品名称 Product Name: Other

产品代码 Product Code	产品批号 Batch No.:	数量 Quantity	处理决定 Disposition
Other	DS2007004	150L	

受影响的物料信息 Impacted Material Information

物料名称 Material Name:

物料代码 Product Code	批号 Batch No.:	数量 Quantity
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受影响的溶液信息 Impacted Media/Buffer Information

溶液名称 Media/Buffer Name:

溶液代码 Media/Buffer Code:	批号 Batch No.:	数量 Quantity:
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受影响的设备信息 Impacted Equipment Information

设备名称 Equipment Name: 生物反应器 (150L)	设备代码 Equipment Code MFG-M1b3-054
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偏差处理措施 Deviation Action Items

PR#:

责任人 Assigned To:

部门 Department:

截止日期 Date Due:

完成日期 Completed Date:

确认人 Verified By:

确认日期 Verified On:

行动项详细描述 Action Description:

纠正信息 Correction Information

PR#:4174

Deviation No.:D-2020-0221

Record Status: Closed-Done

PR#:

责任人 Assigned To:

截止日期 Date Due:

确认人 Verified By:

行动项详细描述 Action Description:

部门 Department:

完成日期 Completed Date:

确认日期 Verified On:

纠正与预防措施 CAPA

PR#:

责任人 Assigned To:

截止日期 Date Due:

行动项详细描述 Action Description:

部门 Department:

附件 File Attachments

关联记录 Reference Records

PR#	Record Type	简短描述 Short Description	Record Status
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相关子记录 Related children

PR#	Record Type	简短描述 Short Description	Record Status
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偏差报告 Deviation Report

PR#: 4174

Deviation No.:D-2020-0221

Record Status: Closed-Done

Initial Approval

QA Initial Review

Area QA Initial Reviewed By:	王, 淼淼	Area QA Initial Reviewed On:	2020.07.27 14:05
Classify Completed By:	吴, 祯	Classify Completed On:	2020.07.28 15:01

Department Initial Review

Department Leader 1 Reviewed By:	邓, 献存	Department Leader 1 Reviewed On:	2020.07.28 15:21
Department Leader 2 Reviewed By:		Department Leader 2 Reviewed On:	
Department Leader 3 Reviewed By:		Department Leader 3 Reviewed On:	
Department Leader 4 Reviewed By:		Department Leader 4 Reviewed On:	
Department Leader 5 Reviewed By:		Department Leader 5 Reviewed On:	
Area QA Leader Reviewed By:	代, 圆圆	Area QA Leader Reviewed On:	2020.07.28 16:15

Quality Initial Approval

Quality Approver 1 Approved By:	高, 剑锋	Quality Approver 1 Approved On:	2020.07.28 17:16
Quality Approver 2 Approved By:		Quality Approver 2 Approved On:	
Quality Approver 3 Approved By:		Quality Approver 3 Approved On:	

Final Approval

QA Final Review

QA Final Reviewed By:	QA Final Reviewed On:
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Investigator Final Review

QA Representative Reviewed By:	QA Representative Reviewed On:
Investigator 1 Reviewed By:	Investigator 1 Reviewed On:
Investigator 2 Reviewed By:	Investigator 2 Reviewed On:
Investigator 3 Reviewed By:	Investigator 3 Reviewed On:
Investigator 4 Reviewed By:	Investigator 4 Reviewed On:
Investigator 5 Reviewed By:	Investigator 5 Reviewed On:
Investigator 6 Reviewed By:	Investigator 6 Reviewed On:
Investigator 7 Reviewed By:	Investigator 7 Reviewed On:
Investigator 8 Reviewed By:	Investigator 8 Reviewed On:

Department Final Approval

Department Leader 1 Final Approved By:	Department Leader 1 Final Approved On:
Department Leader 2 Final Approved By:	Department Leader 2 Final Approved On:
Department Leader 3 Final Approved By:	Department Leader 3 Final Approved On:
Department Leader 4 Final Approved By:	Department Leader 4 Final Approved On:
Department Leader 5 Final Approved By:	Department Leader 5 Final Approved On:

Quality Final Approval

Quality Approver 1 Final Approved By:	Quality Approver 1 Final Approved On:
Quality Approver 2 Final Approved By:	Quality Approver 2 Final Approved On:

偏差报告 Deviation Report

PR#: 4174

Deviation No.:D-2020-0221

Record Status: Closed-Done

Quality Approver 3 Final Approved By:

Quality Approver 3 Final Approved On:

Product Final Disposition

Disposition Proposed By:

Disposition Proposed On:

Proposal Reviewed By:

Proposal Reviewed On:

Product Disposition Approved By:

Product Disposition Approved On: