AMDRISKVIALSANDBOTTLES

Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

DOCUMENT NO: REVISION: BXU579481

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1. REVIEW APPROVALS			
FUNCTION	NAME	SIGNATURE	DATE
Product Risk Management Owner (PRMO)/Author	ANUPAM CHOUBEY	SEE ELECTRONIC SIGNA	TURE
Product Design Owner (PDO)	DEEPAK MISHRA	SEE ELECTRONIC SIGNA	TURE
Therapeutic Area (Medical)	JIAN WU	SEE ELECTRONIC SIGNA	TURE
Quality Representative	ANN MILLIMAN	SEE ELECTRONIC SIGNA	TURE
Verifier	ANBARASAN S	SEE ELECTRONIC SIGNA	TURE

2. **PURPOSE**

The purpose of this document is to provide a high-level summary of the potential risks resulting from the design, intended use, reasonably foreseeable misuse, and manufacture of the product. This captures results of GQP-10-02 Risk assessment and Reduction. Each subsection provides a description of the potential risk, discusses the foreseeable sequences of events that may lead to hazardous situations, and an overview of the risk control strategy taken to minimize the risk so that it is reduced as far as possible. A table of hazards, hazardous situations, severities of harms, estimates of probabilities for foreseeable events that may lead to hazardous situations, the mitigations implemented to control them, and the residual risk can be found in the Risk Assessment and Control Table (RACT) associated with this document

SCOPE 3.

Product Family Name: Ahmedabad Vials and Bottles

(current rev.)

Product Family Definition: This product family include both products made in Vials and Bottles manufactured in Ahmedabad. The products included are utilized for the following therapies: Analgesic, Anesthesia, Anti-Convulsant, Anti-Infective, Anti-Sedative, Cardiovascular, Diuretic, Iron Deficiency Anemia, Nutrition, Oncology and Supportive Care, and Sedative.

This product family contains glass containers that are either clear or amber colored glass for supporting light sensitive products. The packaging for these products may include plastic trays for individual vials as an intermediate packaging layer prior to the secondary packaging. For products without the plastic trays, partitions are included in the secondary packaging between the glass containers. The secondary packaging is contained within the carton shipper in packaging configurations dependent on the quantity and marketing requirements.

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3. SCOPE

Product Name: Vial

Product Description: Vials are among the container closure systems that are in typical use in the pharmaceutical industry and are used for many therapies. Vials hold sterile drugs. A vial is closed with a stopper that is sealed with an aluminum skirt and covered by a flip cap. The vial in glass and stopper are the primary packaging components that are in direct contact with the dosage form. The aluminum skirt is used to hold the stopper onto the vial. The flip cap is used to keep the stopper clean until use and is removed just prior to use. Access to the drug is through a needle attached to a syringe that is inserted through the stopper. Vial products are not used for direct infusion. Vials are available for use as single dosing or multiple dosing.



The Vials manufactured in Ahmedabad are sterilized through terminal sterilization. The drug products in the vial are in the form of liquid. A vial drug can be used as an injection in which the drug is administered directly from the syringe used to withdraw the drug from the vial. With an infusion, the vial drug is diluted first into a second container with a base solution which is then infused into a patient over the specific time indicated in the prescribing information.

Product Name: Bottle

(current rev.)

Product Description: Bottles have the same components as vials with the difference being in a larger vial typically ≥ 50 mL. A bottle in glass may also contain an integrated hanger (not shown) used to hang products during infusion. Bottles contain liquid solution and are typically sterilized with terminal sterilization. Bottles in contrast to vials can be used for direct infusion into a patient and accessed with an administration set.

In some cases, the same product in the vial/bottle can be used as a bottle (infusion) or vial (injection). Also, some multi-dose vials can be \geq 50 mL.

Therapy and Intended Use: Refer Ahmedabad Vials and Bottles Product Risk Management Plan (BXU579479)

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3. SCOPE

Description of the Use Environment for the Product Family: The use environment is a hospital, clinic, or alternate care setting where medication is administered under medical supervision.

List or Attach List of Product Code(s) Covered Under This Risk Assessment:

Product Code Product Name/Description

Product codes in scope include all Vials/Bottles product codes manufactured at the Ahmedabad. The final list of product codes is referenced in the Ahmedabad Vials and Bottles Product Trending Table (PTT) BXU585343 issued in accordance with GQP-10-04 (Post Market Risk Monitoring).

4. REFERENCES	
GQR-10/K	PRODUCT RISK MANAGEMENT
GQP-10-02/E	RISK ASSESSMENT AND REDUCTION
GG-10-01/D	P1 DEVELOPMENT
ISO 13485:2016	MEDICAL DEVICES – QUALITY MANAGEMENT SYSTEMS
BXU585343/H	Ahmedabad Vials and Bottles Product Trending Table (PTT)
BXU579479/C	AHMEDABAD VIALS AND BOTTLES PRODUCT RISK MANAGEMENT PLAN
HSHA-PIT/J	PARENTERAL INFUSION THERAPY HAZARDOUS SITUATION AND HARM ANALYSIS
GQI-05-87/E	PHARMACEUTICALS PRODUCT PROBLEM CODES AND COMPONENT CODES FOR GLOBAL COMPLAINT MANAGEMENT SYSTEM
GQI-05-03/V	INDEX OF GUIDANCE DOCUMENTS, CODING DOCUMENTS, AND CALL SCRIPTS
STDA-PHARMACEUTICALS/G	PHARMACEUTICALS END EFFECT AND STANDARD ALLOCATION ANALYSIS

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4. REFERENCES	
BXU571529/C	VIAL AND BOTTLE USE ERROR ANALYSIS (UEA)
BXU563057/A	AHMEDABAD SVP-AQUEOUS LINE - ACICLOVIR DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU565396/A	AHMEDABAD SVP LINE -AQUEOUS LINE - ADENOSINE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU538015/A	AMD - AQUEOUS LINE - CIPROFLOXACIN INJECTION USP, DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU538437/G	AMD-AQUEOUS LINE PFMEA
BXU567697/B	AHMEDABAD BA2 PLANT RECEIVING AND INSPECTION (R&I) PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU566616/B	VIAL LINE-BUPIVACAINE INJECTION(2.5 MG/ML & 5MG/ML) - DISPENSING & MIXING PFMEA
BXU567392/B	AHMEDABAD AQUEOUS LINE -PARACETAMOL DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU566097/B	AHMEDABAD PFE-1 & PFE-2 LINE – PROPOFOL LCT MCT DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU563113/C	AHMEDABAD PFE-1 & PFE-2 LINE – PROPOFOL DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU538320/A	AMD-R&I-PFMEA
BXU567594/D	AHMEDABAD BA2 VIAL LINE PROCESS FAILURE MODE EFFECT ANALYSIS (PFMEA)
BXU566623/B	VIAL LINE-BUPIVACAINE HYDROCHLORIDE 5MG/ML INJECTION BP DISPENSING AND MIXING PFMEA

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4. REFERENCES	
BXU565556/C	AHMEDABAD AQUEOUS LINE -FLUCONAZOLE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU538274/A	AMD - SVP LINE - FLUMAZENIL INJECTION USP, DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU567469/B	VIAL LINE-FUROSEMIDE (10 MG/ML) INJECTION USP DISPENSING AND MIXING PFMEA
BXU537622/B	AMD - SVP-AQUEOUS LINE - FUROSEMIDE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU537623/B	AMD - SVP-AQUEOUS LINE - BUPIVACAINE HYDROCHLORIDE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT (PFMEA) ANALYSIS
BXU565300/A	AHMEDABAD SVP LINE – IRON SUCROSE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU566892/B	AHMEDABAD VIAL LINE – IRON SUCROSE INJECTION USP, 20 MG ELEMENTAL IRON/ML DISPENSING AND MIXING PFMEA
BXU567599/B	AHMEDABAD VIAL LINE - KETAMINE INJECTION 50 MG/ML DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU566738/B	AHMEDABAD AQUEOUS LINE – LEVOFLOXACIN DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU537621/B	AMD - SVP-AQUEOUS LINE - METOPROLOL TARTRATE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU566836/B	AHMEDABAD AMPOULE LINE – MIDAZOLAM 1MG/ML INJECTION DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)

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4. REFERENCES	
BXU566833/B	PFMEA DISPENSING AND MIXING: MIDAZOLAM INJECTION USP 1 MG/ML & MIDAZOLAM INJECTION USP 5 MG/ML
BXU566831/B	AHMEDABAD VIAL LINE – MIDAZOLAM 1MG/ML INJECTION DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU567554/B	AHMEDABAD VIAL LINE – ONDANSETRON (SINGLE DOSE) DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU575006/D	AHMEDABAD BA1 PLANT RECEIVING AND INSPECTION (R&I) PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA) FOR PFE AND PFE-2 LINE
BXU565471/E	AHMEDABAD PFE 2 LINE PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU563347/F	AHMEDABAD PFE 1 LINE PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU538272/A	AMD - SVP LINE - ONDANSETRON INJECTION USP (SINGLE DOSE), DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)
BXU538438/H	AMD - SVP LINE PFMEA
BXU537420/B	AMD - SVP-AQUEOUS LINE - TOBRAMYCIN MIXING AND DISPENSING PFMEA

5. GLOSSARY – TERMS AND ACRONYMS	
AMD	Ahmedabad
SME	Subject Matter Expert
RACT	Risk Assessment and Control Table
HAZOP	Hazard and Interoperability Assessment
HSHA	Hazardous Situation and Harm Analysis

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5. GLOSSARY – TERMS AND ACRONYMS	
UEA	Use Error Analysis
PFMEA	Process Failure Modes and Effects Analysis
UCL	Upper Control Limit
PTT	Product Trending Table
P1	Probability of a Hazardous Situation occurring
P2	Probability of a Hazardous Situation leading to harm
FSOE	Foreseeable Sequence of Events
TcU	Team Center Unified
RR	Risk Reduction
N/A	Not Applicable

6. ASSUMPTIONS

This document is the summation for all Hazards, Hazardous Situations, Harms, and severities for this global product family. Any further information or inquiries pertaining to the meaning of the Hazards, Hazardous Situations, Harms, and severities in the RACT can be found in Parenteral Infusion Therapy Hazardous Situation and Harm Analysis (HSHA-PIT).

This is a living document that will be updated via the remediation of existing product documents and during lifecycle management which includes New Product Development (NPD) and Change Control projects.

The following section describes the assumptions and process that was used to create the Global Risk Assessment and Control Table (RACT), 'Appendix A - GLOBAL RACT'.

Note 1: Risk Identification (Therapy Level) (columns B through E), Risk Analysis (Therapy Level) (columns F through H): The PARENTERAL INFUSION THERAPY HAZARDOUS SITUATION AND HARM ANALYSIS (HSHA-PIT) was leveraged and then modified to develop P2s specific for AMD. The ranges noted in the Risk Analysis (Therapy Level) have been converted to qualitative values as shown in 'Appendix B – P2 Conversion'.

Note 2: Foreseeable Sequence of Events – FSOE (column I): This column references 'Appendix G – MOR' (column B) and was populated utilizing the Effects on Product identified in 'Appendix D - Data Summary' based on a joint effort by

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6. ASSUMPTIONS

the team where the content was derived from Subject Matter Expertise. The relationships between FSOE / Effects on Product are also outlined in STDA-PHARMACEUTICALS.

Note 3: Risk Reduction (column J): This column references 'Appendix G – MOR' (column C, E, G, I, K, M, O, Q, S, U, W, Y, AA, AC, AE, AG, AI, AK, AM, AO, AQ, AS, AU, AW, AY, BA, BC, BE, BG, BI, BK, BM and BO) includes or references the use, process, and safety information that have been committed to or completed and that form the basis for the risk reduction for applicable systems or subsystems. A full listing of process and labelling controls can be found in the documents referenced by this column. NOTE: For Use Risk Reductions in Attachment 1, HS.PIT.1.4-7 risk reduction "Training" was based off the specific HS ID RR in HAZOP BXU566192/A.

Note 4: Demonstration of Effectiveness (column K): This column references 'Appendix G – MOR' (column D, F, H, J, L, N, P, R, T, V, X, Z, AB, AD, AF, AH, AJ, AL, AN, AP, AR, AT, AV, AX, AZ, BB, BD, BF, BH, BJ, BL, BN and BP) and includes or references the process, and safety information that have been committed to or completed and that form the basis for the demonstration of effectiveness for applicable systems or subsystems. A full listing of process and labelling controls can be found in the documents referenced by this column.

Note 5: Probability of Hazardous Situation (P1) (column L): This column was calculated based on the current state of products in the field which includes risk control measures that are currently in place and represents the occurrence of the Hazardous Situation in units of occurrence per million. The P1 values can be found in 'Appendix C - P1 Table'. See Section 8 below for the methodology of determining P1 values for this Risk File.

Note 6: Risk Evaluation (Product Level) (columns M through O): The Probability of Occurrence of Harm identified in these columns is calculated based on the Risk Analysis (Therapy Level) (i.e., P2) and the Probability of Hazardous Situation (i.e., P1). These calculations are found in 'Appendix E – PHarm Table' of the RACT.

Note 7: The worst case Predicted P1 values from 'Appendix D – Data Summary' can be found in 'Appendix F – Data Pivot' with the appropriate "Hazardous Situation ID" and respective "Max of Predicted P1" value.

7. CONVERTED P2 VALUES

(current rev.)

Severity and Probability of Harm Definitions are documented in the Parenteral Infusion Therapy Hazardous Situation and Harm Analysis (HSHA-PIT).

Assessment of the severity of harm associated with each Hazardous Situation shall be based on the potential or known consequences. The severity shall be categorized according to the HSHA.

HSHA-PIT was filtered for HS IDs applicable to Therapeutic Drug. When multiple P2 values of the same HSID were present, it was defaulted to the lines applicable to the therapy with the highest P2 overall criticality dependent on applicability of therapy in the product family.

All applicable HS.IDs were used in the generation of the STDA aside from those listed below:

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7. CONVERTED P2 VALUES

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HS.ID.	Hazardous Situation	Non-Applicability Rationale
HS.PIT.3.5	Patient experiences bodily fluid loss (CSF)	This hazardous situation does not apply to products within the scope of this file as these are not utilized for spinal infusions.
HS.PIT.6.1	End user is exposed to a product's hot surface or hot fluid leaking from a product	Not applicable to Vial or Bottle. Applicable for Premix Frozen category only.
HS.PIT.20.4	Patient's tissue is exposed to shear stress during therapy	Not applicable to Vial or Bottle products as they are in rigid containers and are not used under pressure infusion.
HS.PIT.21.1	End User is exposed to bodily tissue	Not applicable to Vial or Bottle. Applicable for Premix and Pre-filled syringes only.
HS.PIT.24.2	Patient is exposed to a product with a pH of < 7 or > 8	Not applicable to Vial or Bottle. Applicable for Premix only.
HS.PIT.25.1	Patient is infused with a product at higher than intended temperatures (> 43°C / 109.4°F)	Not applicable to AMD Vial or Bottle. Applicable for Premix Frozen only.
HS.PIT.27.2	End User is entangled or entrapped by the product or product components	Not applicable to Vial or Bottle products as they do not have an overpouch that would cause potential for injury to the user if they were entangled/entrapped by the product.

A new end effect described as "Separation of Solution" has been included, specific to the emulsifying product Propofol, and is in alignment with STDA PARENTERAL NUTRITION. There will be an allocation of 3 for HS.PIT.28.1, Patient is exposed to an unstable drug emulsion, and 3, 3, 3, 1, 1 for HS.PIT.5.1, HS.PIT.5.2, HS.PIT.5.3, HS.PIT.5.4, and HS.PIT.5.5 respectively. If the effect is identified early in the setup process, it may sometimes be quickly resolved. However, if the effect is not noticed just prior to administration to the patient, there may be an increased amount of time required to obtain new supplies. Delay Split (%): 20 / 50 / 25 / 3 / 2.

In addition, HS.PIT.28.1 has also been made applicable to Discoloured and Incorrect Storage end effects for this risk file, with an allocation of 3 and 5 respectively, due to the presence of the emulsifying agent, Propofol and in alignment with the STDA PARENTERAL NUTRITION allocations for emulsion with these end effects.

Standard Delay, Standard Interruption, Individually Investigate, Problem Code does not relate to Product Family Code, and No directly resulting Hazardous Situation/End Effect are end effects that result in mutually exclusive hazardous situations but are not directly affects on products themselves. They are building blocks for other end effects in the STDA and are included in other end effects that impact the product directly. Therefore, the end effects themselves are excluded in the RACT.

The P2 value in the HSHA represents the probability of a Hazardous Situation leading to harm at a specific severity level, regardless of the cause. The P2 assumes the HS has occurred and does not consider any clinical sequence of events which may prevent the HS from occurring. The P2 values are converted using table 1 below:

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7. CONVERTED P2 VALUES

(current rev.)

Table 1 – Therapy Occurrence Conversions

Table 1 Therapy Codarrence Conversions		
Therapy Occurrences (HSHA)		
Qualitative Quantitative (OPM)		Quantitative (OPM)
Expected	7	> 500,000
Likely	6	>240,000 to <= 500,000
Often	5	> 100,000 to <= 240,000
Periodic	4	> 10,000 to <= 100,000
Occasional	3	> 100 to <= 10,000
Rare	2	> 1 to <= 100
Exceptional	1	> 0 to <= 1

The probability of the Hazardous Situation (P1) occurring will leverage occurrence rankings based on information from multiple sources, including but not limited to: SME expertise, UEA, and pFMEAs. For each Hazardous Situation, the probability of occurrence of harm for this product family will be evaluated based on the consideration of both P1 and P2 (P1 x P2). See next section for P1 methodology.

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8. P1 METHODOLOGY

(current rev.)

The guidance outlined in GG-10-01, P1 development, was utilized to create the P1 table for this product family. The purpose of this section is to provide a detailed summary of the inputs to the analysis conducted. The documents and software listed in Table 2 were utilized to determine a predicted P1.

Table 2 - Data/Tools Used in this Analysis

Reference Number	Document Title / Source	Revision	Archival Location
HSHA-PIT	PARENTERAL INFUSION THERAPY HAZARDOUS SITUATION AND HARM ANALYSIS	J	TcU+
STDA-PHARMACEUTICALS	PHARMACEUTICALS END EFFECT AND STANDARD ALLOCATION ANALYSIS	G	TcU+
BXU566192	HAZARD AND INTEROPERABILITY ASSESSMENT (HAZOP) PHARMA- GLASS_BOTTLES	А	TcU+
Attachment 1_Vial and Bottle UEA BXU571529	VIAL AND BOTTLE USE ERROR ANALYSIS (UEA)	В	TcU+
Attachment 2_Aciclovir BA 1 (SVP)_pFMEA_BXU563057	AHMEDABAD SVP-AQUEOUS LINE - ACICLOVIR DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 3_Adenosine BA 1 SVP Aqueous Line (Vial)_pFMEA_BXU565396	AHMEDABAD SVP LINE -AQUEOUS LINE - ADENOSINE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 4_AMD - Aqueous Line - Ciprofloxacin Injection USP Dispensing and Mixing_pFMEA_BXU538015	AMD - AQUEOUS LINE - CIPROFLOXACIN INJECTION USP, DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 5_AMD - Aqueous Line_pFMEA_BXU538437	AMD-AQUEOUS LINE PFMEA	В	TcU+
Attachment 6_AMD - BA2 Plant Receiving and Inspection (RI)_pFMEA_BXU567697	AHMEDABAD BA2 PLANT RECEIVING AND INSPECTION (R&I) PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 7_AMD - Bupivacaine 2.5mgmL & 5mgmL pFMEA - B2 Vial line_pFMEA_BXU566616	VIAL LINE-BUPIVACAINE INJECTION(2.5 MG/ML & 5MG/ML) - DISPENSING & MIXING PFMEA	В	TcU+
Attachment 8_AMD - Bupivacaine Dispensing and Mixing_pFMEA_BXU537623	AMD - SVP-AQUEOUS LINE - BUPIVACAINE HYDROCHLORIDE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT (PFMEA) ANALYSIS	В	TcU+

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Attachment 9_AMD - Paracetamol Mixing and Dispensing_pFMEA_BXU567392	AHMEDABAD AQUEOUS LINE – PARACETAMOL DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 10_AMD - Propofol LCT MCT Mixing and Dispensing_pFMEA_BXU566097	AHMEDABAD PFE-1 & PFE-2 LINE – PROPOFOL LCT MCT DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 11_AMD - Propofol_pFMEA_BXU563113	AHMEDABAD PFE-1 & PFE-2 LINE – PROPOFOL DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 12_AMD - R&I_pFMEA_BXU538320	AMD-R&I-PFMEA	В	TcU+
Attachment 13_BA 2 Vial Line_pFMEA_BXU567594	AHMEDABAD BA2 VIAL LINE PROCESS FAILURE MODE EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 14_Bupivacaine BA 2 (Vial Line) Vial_pFMEA_BXU566623	VIAL LINE-BUPIVACAINE HYDROCHLORIDE 5MG/ML INJECTION BP DISPENSING AND MIXING PFMEA	В	TcU+
Attachment 15_Fluconazole Mixing and Dispensing_pFMEA_BXU565556	AHMEDABAD AQUEOUS LINE - FLUCONAZOLE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 16_Flumazenil SVP Vial_pFMEA_BXU538274	AMD - SVP LINE - FLUMAZENIL INJECTION USP, DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 17_Furosemide BA 2 (Vial line)_pFMEA_BXU567469	VIAL LINE-FUROSEMIDE (10 MG/ML) INJECTION USP DISPENSING AND MIXING PFMEA	В	TcU+
Attachment 18_Furosemide_pFMEA_BXU537622	AMD - SVP-AQUEOUS LINE - FUROSEMIDE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 19_Iron Sucrose BA 1 (SVP)_pFMEA_BXU565300	AHMEDABAD SVP LINE – IRON SUCROSE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 20_Iron Sucrose BA2 Vial_pFMEA_BXU566892	AHMEDABAD VIAL LINE – IRON SUCROSE INJECTION USP, 20 MG ELEMENTAL IRON/ML DISPENSING AND MIXING PFMEA	В	TcU+
Attachment 21_Ketamine BA 2 (Vial line)_pFMEA_BXU567599	AHMEDABAD VIAL LINE - KETAMINE INJECTION 50 MG/ML DISPENSING AND	В	TcU+

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	MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)		
Attachment 22_Levofloxacin - Aqueous line_pFMEA_BXU566738	AHMEDABAD AQUEOUS LINE – LEVOFLOXACIN DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 23_Metoprolol_pFMEA_BXU537621	AMD - SVP-AQUEOUS LINE - METOPROLOL TARTRATE DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 24_Midazolam BA 2 (Ampoule line)_pFMEA_BXU566836	AHMEDABAD AMPOULE LINE – MIDAZOLAM 1MG/ML INJECTION DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 25_Midazolam BA 2 (Vial line) Midazolam 1 mgmL & 5mgmL Injection USP pFMEA Vial Line Appendix-B_pFMEA_BXU566833	PFMEA DISPENSING AND MIXING: MIDAZOLAM INJECTION USP 1 MG/ML & MIDAZOLAM INJECTION USP 5 MG/ML	В	TcU+
Attachment 26_Midazolam BA 2 (Vial line)_pFMEA_BXU566831	AHMEDABAD VIAL LINE – MIDAZOLAM 1MG/ML INJECTION DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 27_Ondansetron BA 2 (Vial line)_pFMEA_BXU567554	AHMEDABAD VIAL LINE – ONDANSETRON (SINGLE DOSE) DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 28_PFE & PFE-2 R&I_pFMEA_BXU575006	AHMEDABAD BA1 PLANT RECEIVING AND INSPECTION (R&I) PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA) FOR PFE AND PFE-2 LINE	В	TcU+
Attachment 29_PFE 2 Line_pFMEA_BXU565471	AHMEDABAD PFE 2 LINE PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 30_PFE Line_pFMEA_BXU563347	AHMEDABAD PFE 1 LINE PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 31_SVP Line - Ondansetron Injection USP (Single dose) Dispensing and Mixing pFMEA_BXU538272	AMD - SVP LINE - ONDANSETRON INJECTION USP (SINGLE DOSE), DISPENSING AND MIXING PROCESS FAILURE MODE AND EFFECT ANALYSIS (PFMEA)	В	TcU+
Attachment 32_SVP Line_pFMEA_BXU538438	AMD-SVP LINE PFMEA	В	TcU+
Attachment 33_Tobramycin pFMEA_BXU537420	AMD - SVP-AQUEOUS LINE - TOBRAMYCIN MIXING AND DISPENSING PFMEA	В	TcU+

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Attachment 34_Manufacturing Process FMEA Equivalency Assessment Report	MANUFACTURING PROCESS FMEA EQUIVALENCY ASSESSMENT REPORT	В	Baxter AMD site- doc cell
Attachment 35_Initial_PTT_Ahmedabad	Vial and Bottle Initial Product Trending Table (PTT)	В	TcU+
Attachment 36_UCL	Vial and Bottle Upper Control Limit (UCL)	В	TcU+
Attachment 37_UCL Memo	Vial and Bottle UCL Memo	В	TcU+

⁺TcU = Teamcenter Unified

The following process was used to determine a P1 value:

- 1. Establish a list of Effects on Product due to Process and Use related failures.
 - a. A list of End Effects has already been established in the STDA-PHARMACEUTICALS, filtered with 'Vial & Bottle Qualitative' applicability. Allocation ranges are defined as follows:

Table 3 – Allocation Conversions

Allocation Factors								
Qualitative Quantitative (%)								
5	>= 80% to <= 100%							
3	>= 11% to <= 79%							
1	<= 10%							

- b. For Use related End Effects, use the 'STDA End Effect' column in VIAL AND BOTTLE USE ERROR ANALYSIS (UEA) document, Attachment 1.
- c. For Process related End Effects, map in the 'STDA End Effect' column in the PFMEAs to the appropriate End Effect from the STDA-PHARMACEUTICALS.

2. For the UEA:

Line75 in the UEA with Use Steps "Dispose Administration Materials" mapped to "Loose Components" end effect will also be mapped as end effect "Product not used as single dose only". The improper disposal of administration material would allow a product to not be used as a single dose only with the probability rating of 1 taken from row 75 of the UEA. In addition, line 59 Use Step "Prepare Infusion / Injection" with Use Sub-Step "Prime administration set (if applicable)" will also be mapped to "Introduction of Air into fluid Path". The line is noted as "N/A - Out of Scope because this step does not have an interaction between the USER and VIAL / BOTTLE, VIAL CARTON or PRODUCT." In the UEA, it should be applicable to the product as Vial products are used for direct administration. Therefore, it is assigned a probability rating of 3, based off the occurrence value for "Introduction of Air into fluid Path" in HAZOP BXU566192/A. Document the relationship between the 'STDA End Effect' to the applicable Hazardous Situations in 'Appendix D - Data Summary' of the RACT as "Use" source. Generalized 'Effect Types' and their mappings to appropriate Hazardous Situations for AMD are found in the STDA-PHARMACEUTICALS. Note: Multiple Effects on Product may lead to the same Hazardous Situations and multiple Hazardous Situations may lead to the same Effect on Product.

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Data Roll Up of the 'STDA End Effect' and maximum Probability Rating are provided in the "End Effects Max Probability" tab of Attachment 1_Vial and Bottle UEA BXU571529.

3. For pFMEAs:

Comparable pFMEAs, found in Attachment 34, were utilized in circumstances where a specific mixing pFMEA was not available.

For Process related End Effects, map in the 'STDA End Effect' column in the pFMEAs to the appropriate End Effect on Product from STDA-PHARMACEUTICALS.

a. Calculate the Occurrence x Detection (O x D) value using the chart below to determine the predicted failure rate for each row in the pFMEA.

	Qualitative Detection									
Category	Rank	Definition								
Improbable 5		It is unlikely that the detection								
Improbable	5	control will detect the defect								
		There is low probability the								
Low	4	detection control will detect the								
		defect								
		The detection control will detect								
Moderate	3	about half of the defects in the								
		population								
High	2	The detection control will detect a								
riigii	2	significant portion of the defects								
Almost	1	The detection control will detect								
Certain	I	almost all defects								

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	X D					
0	Χ D	1	2	3	4	5
	1	1	1	1	1	1
nce	2	1	1	1	1	2
Occurrence	3	1	2	2	2	3
O	4	1	3	3	3	4
	5	2	4	4	4	5

- b. Data Roll Up of the End Effect and maximum O x D for each pFMEA is provided in the "P1 Pivot" tab of Attachments 2-33.
- c. Document the relationship between the 'STDA End Effect' for each pFMEA to the applicable Hazardous Situations in 'Appendix D - Data Summary' of the RACT as each respective "Process" pFMEA source column.
- 4. Then populate the worst-case failure rate (WC failure rate) with the highest value between the pFMEA and the UEA for each Hazardous Situation.
- 5. Use the following table to determine the predicted P1 for each End Effect Hazardous Situation combination by comparing the worst-case failure rate determined in Step 4 and the allocation factor (1-3-5) determined in STDA-PHARMACEUTICALS:

Table 5 - P1 Calculations

FR x		Allocation Factor						
FK X	АГ	1	3	5				
= te	1	1	1	1				
Failur e Rate	2	1	1	2				
щφ	3	1	3	3				

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4	1	3	4
5	1	5	5

Then record the worst case P1 for each hazardous situation in "Data Summary Derived P1" column of 'Appendix C – P1 Table.'

6. Convert the UCLs (Upper Control Limits) from Complaint Data (seen in Attachment 36) to qualitative according to GG-10-01 Appendix 1 Table A1--5, provided below.

Qualita	tive	Quantitative
Frequent	5	X >1000 OPM
Probable	4	1000 ≥ X > 100 OPM
Occasional	3	100 ≥ X > 10 OPM
Remote	2	10 ≥ X >1 OPM
Improbable	1	< 1 OPM

Then record qualitative values in the "UCL" column of 'Appendix C – P1 Table' for all applicable Hazardous Situations. Note: UCLs were calculated using the upper limit of the Allocation Factor Range, to be conservative. An allocation of 1 was represented as 10%, an allocation of 3 was represented as 79%, and an allocation of 5 was represented as 100%.

- 7. Evaluate the worst case P1 between the "Data Summary Derived P1" and "UCL" data to record in the P1 column of 'Appendix C P1 Table' the final P1 value.

 Note: SME establishes P1 value with Rationale, if appropriate, in 'Appendix C P1 Table' in the P1 Predicted by Subject Matter Expertise and Selected P1 Rationale columns.
- 8. Next, record the P2 Conversion and P1 values for each Hazardous Situation in 'Appendix E PHarm Table'. Calculate PHarm for each Hazardous Situation by multiplying P1 x P2 at each severity level. Convert the PHarm values to Qualitative using Table 6 below:

Table 6 - PHarm Conversions

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	Individual Residual Risk		Severity (Qualitative)						
			Critical	Moderate	Minor				
	a i	0	N/A	N/A	N/A				
	x P2	1-7 Medium		Low	Low				
	Р1	8 – 18	High	Medium	Low				
		19 – 35	High	High	Medium				

9. Record the P1 values and PHarm Qualitative values, per each severity level, for all Hazardous Situations in 'Appendix A – Global RACT'.

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9. RISK ASSESSMENT AND CONTROL TABLE RACT attached or Reference: In BXU579481_Rev B.xlsx Cover Page Details (Computer details, OS and Excel version, References) Sites (List of Plants involved in the Product Family Risk File) Appendix A – Global Risk Assessment and Control Table (RACT) Appendix B – P2 Conversion Appendix C – P1 Table Appendix D – Data Summary Appendix E - PHarm Table Appendix F – Pivot Table Appendix G - MOR Attachment 1_Vial and Bottle UEA BXU571529 Attachment 2_Aciclovir BA 1 (SVP)_pFMEA_BXU563057 Attachment 3_Adenosine BA 1 SVP Aqueous Line (Vial)_pFMEA_BXU565396 Attachment 4_AMD - Aqueous Line - Ciprofloxacin Injection USP Dispensing and Mixing_pFMEA_BXU538015 Attachment 5 AMD - Aqueous Line pFMEA BXU538437 Attachment 6 AMD - BA2 Plant Receiving and Inspection (RI) pFMEA BXU567697 Attachment 7_AMD - Bupivacaine 2.5mgmL & 5mgmL pFMEA - B2 Vial line_pFMEA_BXU566616 Attachment 8 AMD - Bupivacaine Dispensing and Mixing pFMEA BXU537623 Attachment 9 AMD - Paracetamol Mixing and Dispensing pFMEA BXU567392 Attachment 10_AMD - Propofol LCT MCT Mixing and Dispensing_pFMEA_BXU566097 Attachment 11 AMD - Propofol pFMEA BXU563113 Attachment 12 AMD - R&I pFMEA BXU538320 Attachment 13_BA 2 Vial Line_pFMEA_BXU567594 Attachment 14_Bupivacaine BA 2 (Vial Line) Vial_pFMEA_BXU566623 Attachment 15 Fluconazole Mixing and Dispensing pFMEA BXU565556 Attachment 16_Flumazenil SVP Vial_pFMEA_BXU538274 Attachment 17 Furosemide BA 2 (Vial line) pFMEA BXU567469 Attachment 18 Furosemide pFMEA BXU537622 Attachment 19_Iron Sucrose BA 1 (SVP)_pFMEA_BXU565300 Attachment 20 Iron Sucrose BA2 Vial pFMEA BXU566892 Attachment 21_Ketamine BA 2 (Vial line)_pFMEA_BXU567599 Attachment 22_Levofloxacin - Aqueous line_pFMEA_BXU566738 Attachment 23 Metoprolol pFMEA BXU537621 Attachment 24_Midazolam BA 2 (Ampoule line)_pFMEA_BXU566836 Attachment 25_Midazolam BA 2 (Vial line) Midazolam 1 mgmL & 5mgmL Injection USP pFMEA Vial Line Appendix-B pFMEA BXU566833 Attachment 26 Midazolam BA 2 (Vial line) pFMEA BXU566831 Attachment 27 Ondansetron BA 2 (Vial line) pFMEA BXU567554 Attachment 28 PFE & PFE-2 R&I pFMEA BXU575006 Attachment 29_PFE 2 Line_pFMEA_BXU565471 Attachment 30_PFE Line_pFMEA_BXU563347

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Attachment 31 SVP Line - Ondansetron Injection USP (Single dose) Dispensing and Mixing pFMEA BXU538272

Attachment 32_SVP Line_pFMEA_BXU538438

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Attachment 33_Tobramycin pFMEA_BXU537420

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Attachment 34_Manufacturing Process FMEA Equivalency Assessment Report

Attachment 35_Initial_PTT_Ahmedabad

Attachment 36_UCL

Attachment 37_UCL Memo

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10. HAZARDOUS	SITU	ATION MITIGATIO	N OVE	RVIEW						
To demonstrate the risk has been reduced as far as possible (AFAP), the mitigation overview addresses how the product meets one or more of the following criteria (reference GQP-10-02):										
Case I.	e I. Conformance to a harmonized standard.									
	Compliant to a local country standard or commensurate to published literature, in the absence of a harmonized standard.									
Case III.	se III. Demonstration that no further mitigations are technically practical when considering: Best medical practices State of the art technology Performance of predicate and competitive products									
Case IV.	Demon	stration that further	r mitigat	ions will n	ot ir	nprove	safety*			
End Effect:		Breach in Aseptic Administration	Techniq	ue -		Hazar Situat	dous tion(s):	HS	S.PIT.21.3	
Acceptability Assessment:		☐ Case I		☐ Ca	se II		D	Cas	e III	☐ Case IV
Product labeling clearly instructs that aseptic technique must be used throughout use of the product. Aseptic Technique is dependent on standard good clinical practice. Individual residual risk for this hazardous situation is reduced as far as possible (AFAP) considering the generally acknowledged state of the art.										
Residual Risk is:					Acce	ptable	with cRI	ВА	☐ Unac	cceptable
End Effect:		ch in Aseptic Techr	nique -			azardo		HS.P	IT.21.4	
Acceptability Assessment:	Com	oounding Case I		Case I		tuation		Case I	II	☐ Case IV
Product labeling clearly instructs that aseptic technique must be used throughout use of the product. Aseptic Technique is dependent on standard good clinical practice. Individual residual risk for this hazardous situation is reduced as far as possible (AFAP) considering the generally acknowledged state of the art.										
Residual Risk is:									ptable	
								<u>'</u>		
End Effect:		oounding - Base So entration Incorrect				azardo tuatior		HS.P HS.P HS.P	IT.22.1 IT.22.2 IT.5.1 IT.5.2 IT.5.3	

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HS.PIT.5.4 HS.PIT.5.5 **Acceptability** ☐ Case I ☐ Case II □ Case III ☐ Case IV Assessment: Product labeling includes product concentration and volume informing the clinician. Packaging inserts are designed to instruct the user about correct dose volume and compatible IV solutions. Process controls are in place to ensure labeling accuracy. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable ☐ Acceptable with cRBA Unacceptable **End Effect:** Compounding - Diluent Concentration **Hazardous** HS.PIT.22.1 Situation(s): Incorrect HS.PIT.22.2 HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 **Acceptability** ☐ Case I ☐ Case II Case III ☐ Case IV Assessment: Product labeling includes product concentration, diluent concentration and volume informing the clinician. Packaging inserts are designed to instruct the user about correct dose volume and compatible IV solutions along with appropriate diluent concentration. Process controls are in place to ensure labeling accuracy. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable | ☐ Acceptable with cRBA ☐ Unacceptable End Effect: Compounding - Incorrect Base Solution Hazardous HS.PIT.11.1 Situation(s): HS.PIT.22.1 HS.PIT.22.2 HS.PIT.23.1 HS.PIT.23.2 HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 Acceptability ☐ Case I ☐ Case II Case IV **Assessment:** Product labeling includes product concentration and volume informing the clinician. Packaging inserts are designed to instruct the user about correct dose volume and compatible IV solutions. Process controls are in place to ensure

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☐ Acceptable with cRBA

labeling accuracy. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP)

considering the generally acknowledged state of the art.

Acceptable

Residual Risk is:

Unacceptable

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End Effect:	1 3			Hazardous Situation(s):		HS.PIT.11.1 HS.PIT.22.1 HS.PIT.22.2 HS.PIT.23.1 HS.PIT.53.2 HS.PIT.5.1 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.4		
Acceptability Assessment:	☐ Case I	☐ Case	: II		Case	III	☐ Case IV	
Product labeling includes correct diluent for reconstitution and dilution informing the clinician. Packaging inserts are designed to instruct the user about correct and compatible IV solutions. Process controls are in place to ensure labeling accuracy. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art.								
Residual Risk is:		☐ Ac	ceptable	with cRBA		☐ Unac	ceptable	
End Effect:	Cosmetic defects		Hazardous Situation(s):		HS. HS. HS.	PIT.5.1 PIT.5.2 PIT.5.3 PIT.5.4 PIT.5.5		
Acceptability Assessment:	☐ Case I	☐ Case	e II		Case	III	☐ Case IV	
Units are visually in inspection for cosm	dated and machine setup aspected for defects in-p netic defects. Individual of the generally acknowle	rocess and durir residual risk for	ng packing these haz	g. Final rele	ease	visual insp	pections include	
Residual Risk is:		☐ Ac	ceptable	with cRBA		☐ Unac	ceptable	
End Effect:	Damaged – Carton			rdous tion(s):	HS. HS. HS. HS.	PIT.5.1 PIT.5.2 PIT.5.3 PIT.5.4 PIT.5.5 PIT.27.3		
Acceptability Assessment:	☐ Case I	☐ Case	e II		Case	III	☐ Case IV	
	s are designed and valide inspected for damage							

product and secondary packaging. These ensure the carton functions as intended.

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	isk for these hazardous dged state of the art.	situations	is reduce	ed as fa	ar as possik	ole (AFA	AP) cons	sidering the	
Residual Risk is:			Accep	otable v	with cRBA] Unacc	ceptable	
End Effect:	Damaged - Closure Sys	Damaged - Closure System			Hazardous Situation(s): HS.PIT.5. HS.PIT.5. HS.PIT.5. HS.PIT.5. HS.PIT.5. HS.PIT.21		T.5.2 T.5.3 T.5.4 T.5.5		
Acceptability Assessment:	☐ Case I		Case II		\boxtimes (Case III		☐ Case IV	
The closure is intended to maintain a sterile fluid path until the point of use when it is intended to be removed. Materials selected for the closure are intended to provide a bond which can ensure that the sterile barrier is maintained, and the closure can still be removed at time of use. The ability of the bond to maintain the sterile barrier is verified during design. Product is additionally 100% visually inspected for presence of closure and proper seal. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. These controls represent state of the art technology available of the time of design.									
Residual Risk is:			Accep	otable v	with cRBA] Unacc	ceptable	
End Effect:	Damaged - Other			Hazardous Situation(s):		HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.18.1 HS.PIT.18.2 HS.PIT.18.3 HS.PIT.18.4 HS.PIT.18.5			
Acceptability Assessment:	☐ Case I		Case II		\boxtimes (Case III		☐ Case IV	
performed in order during packing. Fir Individual residual r	Parts are evaluated during receiving and inspection. Processes are validated and machine setup activities are performed in order to reduce the introduction of defects. Units are visually inspected for defects in-process and during packing. Final release visual inspections include inspection for cosmetic defects. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art.								
Residual Risk is:			Accep	otable v	with cRBA] Unacc	ceptable	

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End Effect:

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Damaged - Rigid Components

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HS.PIT.5.1

HS.PIT.5.2

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Hazardous

Situation(s):

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HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.27.3 Acceptability ☐ Case IV Case I ☐ Case II **Assessment:** Parts are evaluated during receiving and inspection. Processes are validated and machine setup activities are performed in order to reduce the introduction of defects. Units are visually inspected for defects in-process and during packing. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable ☐ Acceptable with cRBA Unacceptable End Effect: Damaged - Secondary Packaging HS.PIT.5.1 **Hazardous** Situation(s): HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.11.1 HS.PIT.13.5 HS.PIT.13.6 HS.PIT.13.7 HS.PIT.27.3 Acceptability ☐ Case I ☐ Case II ☐ Case IV Assessment: Shipping studies have been performed to provide evidence that the secondary packaging protects the product from damage. These controls represent state of the art technology available of the time of design. Residual Risk is: Acceptable Acceptable with cRBA Unacceptable End Effect: Difficult to Use Hazardous HS.PIT.5.1 Situation(s): HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.27.6 **Acceptability** ☐ Case II ☐ Case IV Case III Assessment: The products are designed to be ergonomically easy to use. Product container is sourced by suppliers with design in conformance to the harmonized standard. The supplier certificate analysis conformance provides this evidence. Design requirements for testing the product manually are in place to ensure that the product is functionally easy to use. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable ☐ Acceptable with cRBA Unacceptable

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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End Effect:				rdous tion(s):	4				
Acceptability Assessment:	☐ Case I	☐ Case II			Case III	☐ Case IV			
in conformance to Design requirement use. The instruction technique for drug	The products are designed to be ergonomically easy to use. Product container is sourced by suppliers with design in conformance to the harmonized standard. The supplier certificate analysis conformance provides this evidence. Design requirements for testing the product manually are in place to ensure that the product is functionally easy to use. The instructions for use for the products make it clear and easy to the end user to follow and use the proper technique for drug admixing with these products. The labelling of the product has been verified to ensure that it is meeting the product requirements.								
Residual Risk is:		☐ Acce	ptable	with cRBA	☐ Una	acceptable			
End Effect:	Discolored		Hazar		HS.PIT.5.1				
			Situa	tion(s):	HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.11. HS.PIT.28.	1			
Acceptability Assessment:	☐ Case I	☐ Case II	☐ Case III		Case III	☐ Case IV			
appropriate compo Individual residual	process is designed and sition and purity. Vials a risk for these hazardous edged state of the art.	and Bottles are 100)% visu	al inspected	d for discolor	ed solution.			
Residual Risk is:		☐ Acce	ptable	with cRBA	☐ Una	acceptable			
End Effect:	Embedded Material - Non-Solution Path Contact			rdous tion(s):	HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5				
Acceptability Assessment:	☐ Case I	☐ Case II			Case III	☐ Case IV			
Units are visually in release of packaging	dated and machine seturnspected for defects in rendering materials, inspection for cosmetic	eceiving and insper for presence of ext	ction, in	n-process a	nd during pa	cking. During the			

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Individual residual r generally acknowle	k for these hazardous situations is reduced as far as possible (AFAP) considering the ged state of the art.							
Residual Risk is:				ptable v	with cRBA		☐ Unac	ceptable
End Effect:	Embedded Material - Society Contact	olution P	'ath	Hazar Situat	dous tion(s):	HS HS HS	.PIT.5.1 .PIT.5.2 .PIT.5.3 .PIT.5.4 .PIT.5.5	
Acceptability Assessment:	☐ Case I		Case II		\boxtimes	Case	e III	☐ Case IV
Units are visually in release of packagin inspections is also pludividual residual r	ated and machine setup spected for defects in re g materials, inspection for performed. isk for these hazardous dged state of the art.	eceiving a or prese	and inspec	ction, in raneou	-process ar s matter is	nd d perfo	uring pack ormed. Fin	ing. During the al release visual
Residual Risk is:			☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
			ı					
End Effect:	Expired Product			Hazar Situat	tion(s):	HS HS HS HS HS	.PIT.5.1 .PIT.5.2 .PIT.5.3 .PIT.5.4 .PIT.5.5 .PIT.11.1 .PIT.13.5 .PIT.13.6 .PIT.13.7 .PIT.19.1	
Acceptability Assessment:	☐ Case I		Case II		\boxtimes (☐ Case IV
Stability testing are conditions). Verifica accurately applied a Individual residual r	performed to determine ation at variable print set at manufacturing. Instruisk for these hazardous dged state of the art.	tup as we	ell as at re r use spec s is reduc	elease t cify not ed as fa	esting ensu to use the p	ires orod	that the exuct after ex	piry date is kpiry.
itesiuuai itisk is.	NA Acceptable		☐ Acce	Pianie (WILLI CUDA		Unac	ceptable
End Effect:	Excessive Bolus or The	erapy		Hazar Situat	dous tion(s):		.PIT.10.1 .PIT.10.2	

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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						HS.PIT.10.3		
Acceptability Assessment:	☐ Case I		⊠ Case II			Case III	□ c	ase IV
the product which o	ies the volume and strer correlates to the appropr stration is dependent on	iate flow	rate. Proc	ess cor				
specific country reg	s designed to contain cor gulatory requirements. Po sting using validated me	rint corre						
	risk for these hazardous edged state of the art.	situation	ns is reduc	ed as fa	ar as possib	ole (AFAP) cor	nsidering th	е
Residual Risk is:			☐ Acce	ptable v	vith cRBA	☐ Unac	ceptable	
						1		
End Effect:	Falling Product			Hazar Situat	dous ion(s):	HS.PIT.3.1 HS.PIT.3.2 HS.PIT.3.3 HS.PIT.3.4 HS.PIT.18.1 HS.PIT.18.2 HS.PIT.18.3 HS.PIT.18.4 HS.PIT.18.5 HS.PIT.20.3 HS.PIT.27.3 HS.PIT.27.7		
Acceptability Assessment:	☐ Case I	[☐ Case II		\boxtimes (Case III	□ c	ase IV
Shipping studies, a For the Bottle, Han verification. The design of the p on standard good of	ing Materials are design- ssess for physical dama ger is designed to meet product is a standard con clinical practice. risk for this hazardous si	ge of the	e product a design red I design. H	and sec quireme	ondary pacents and was	kaging. s qualified thro s in a clinical s	ough produ	ct design pendent
acknowledged state	e of the art.		I		•	·		
Residual Risk is:			│	ptable v	vith cRBA	☐ Unac	ceptable	
End Effect:	Falling Product - Cartor	า		Hazar	dous	HS.PIT.27.7		

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Acceptability

Assessment:

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☐ Case IV

☐ Case II

Situation(s):

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Packaging Materials are designed and validated to withstand distribution and handling conditions. The stretch wrapping pallets are inspected for damage prior to shipment. Shipping studies assessed for physical damage of the product and secondary packaging. These ensure the carton functions as intended. Individual residual risk for this hazardous situation is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable ☐ Acceptable with cRBA Unacceptable End Effect: HS.PIT.23.1 Final product contains sub-visible **Hazardous** particulate matter Situation(s): **Acceptability** ☐ Case II ☐ Case III ☐ Case IV **Assessment:** This product is tested in compliance with USP <788> Particulate Matter in Injections (sub-visible) and regional pharmacopeia requirements. Methods and limits conform to pharmacopeias and/or local and federal regulations. Individual residual risk for this hazardous situation is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable Acceptable with cRBA Unacceptable **End Effect:** Final product contains visible particulate Hazardous HS.PIT.5.1 Situation(s): HS.PIT.5.2 matter HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.18.1 HS.PIT.18.2 HS.PIT.18.3 HS.PIT.18.4 HS.PIT.18.5 HS.PIT.23.2 Acceptability ☐ Case II Case III ☐ Case IV Assessment: Baxter controls the presence of loose visible particulate matter through a series of prevention controls, detection controls, and release testing including: Raw material handling controls including container cleaning and inspections Visual tank inspections Solution filtered before filling along with routine checks of the filter integrity Personnel controls (e.g. Gowning, cleaning, and qualification) and environmental controls (air handling, filtration). This product is tested in compliance with USP<1> and USP <790>. Methods and limits conform to local pharmacopeias, regional pharmacopeias and/or local and federal regulations.

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Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable ☐ Acceptable with cRBA Unacceptable **End Effect:** Flow rate greater than intended **Hazardous** HS.PIT.10.1 Situation(s): HS.PIT.10.2 HS.PIT.10.3 Acceptability ☐ Case I ☐ Case IV ☐ Case II **Assessment:** Appropriate administration is dependent on good clinical practice. Vials and Bottles are included in the situation where they are used to compound an infusion product where the flow rate is dependent on the set/infusion products. For the direct infusion with a bottle the product labeling instructs the timing to deliver the product which correlates to the appropriate flow rate. No further controls are feasible. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: ☐ Acceptable with cRBA Acceptable Unacceptable **End Effect:** HS.PIT.16.1 Flow rate less than intended **Hazardous** Situation(s): HS.PIT.16.2 HS.PIT.16.3 Acceptability ☐ Case I ☐ Case II ☐ Case IV Assessment: Appropriate administration is dependent on good clinical practice. Vials and Bottles are included in the situation where they are used to compound an infusion product where the flow rate is dependent on the set/infusion products. For the direct infusion with a bottle the product labeling instructs the timing to deliver the product which correlates to the appropriate flow rate. No further controls are feasible. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Unacceptable ☐ Acceptable with cRBA End Effect: Hazardous HS.PIT.11.1 Incorrect Storage Situation(s): HS.PIT.13.5 HS.PIT.13.6 HS.PIT.13.7 HS.PIT.19.1 HS.PIT.24.1 HS.PIT.28.1 **Acceptability** ☐ Case I ☐ Case II ☐ Case III ☐ Case IV **Assessment:** Labeling and package inserts clearly indicate the appropriate storage conditions of the product. Process controls are in place to ensure labeling accuracy. Proper storage of product is dependent on good clinical practice.

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Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable ☐ Acceptable with cRBA Unacceptable **End Effect:** Insufficient Bolus or Therapy Hazardous HS.PIT.16.1 Situation(s): HS.PIT.16.2 HS.PIT.16.3 Acceptability ☐ Case IV ☐ Case I ☐ Case II Case III Assessment: System contains intended volume which is maintained by process controls. The labeling identifies the volume and strength of the product. Process controls are in place to ensure labeling accuracy. Appropriate administration is dependent on good clinical practice. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable ☐ Acceptable with cRBA Unacceptable End Effect: Introduction of Air into fluid Path Hazardous HS.PIT.1.4 Situation(s): HS.PIT.1.5 HS.PIT.1.6 HS.PIT.1.7 Acceptability ☐ Case I ☐ Case II ☐ Case IV Assessment: This is applicable only to products in this product family that are in a bottle and used with direct infusion. This is dependent on the priming of the set prior to infusion of the solution. Proper priming is dependent on good clinical practice. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable ☐ Acceptable with cRBA Unacceptable **End Effect:** Label - Drug Identifying **Hazardous** HS.PIT.2.1 Situation(s): HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.10.1 HS.PIT.10.2 HS.PIT.10.3 HS.PIT.13.1 HS.PIT.13.2 HS.PIT.13.3 HS.PIT.13.4

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							HS HS HS	6.PIT.13.6 6.PIT.13.7 6.PIT.14.1 6.PIT.16.1 6.PIT.16.2 6.PIT.16.3	
Acceptability Assessment:		☐ Case I		☑ Case II			Case	e III	☐ Case IV
are selected from e Instructions for Use	acl ar	al, storage and releas h batch for final testin nd the product label s	g. The I pecify ro	abeling ind ute of adm	dicates ninistrat	the composition.	sitio	n of the pro	oduct.
correct label is verification print information an	fied nd c	ved by each regulato I prior to batch manuf quality are verified at selease testing using va	acturing set-up. P	. For labe	ling prir tness a	nted during and quality	the	manufactu ections are	ring process, correct
Labels are compliant harmonized standa		o a local or country st	cal or country standard or commensurate to published literature, in the absence of a				the absence of a		
Individual residual r generally acknowle		k for these hazardous situations is reduced as far as possible (AFAP) considering the ged state of the art.							
Residual Risk is:				☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
End Effect:		abel - Instructions for larnings/cautions)	Use (Inc	ludes	Hazar Situat	dous iion(s):	HS HS HS	S.PIT.2.1 S.PIT.5.1 S.PIT.5.2 S.PIT.5.3 S.PIT.5.4 S.PIT.5.5 S.PIT.15.1	
Acceptability Assessment:		☐ Case I		☑ Case II			Case		☐ Case IV
Labelling content is specific country reg verified prior to bat Labels are complian harmonized standa	ndicates the composition of the product, the instructions for use and the route of administration. tent is designed to contain correct information, and is aligned with approved internal labelling and try regulatory requirements. Preprinted labels are inspected at R&I and use of the correct label is to batch manufacturing. Impliant to a local or country standard or commensurate to published literature, in the absence of a standard. Idual risk for these hazardous situations is reduced as far as possible (AFAP) considering the								
generally acknowle Residual Risk is:		ed state of the art. Acceptable			ntable v	with cRBA		□ Unac	ceptable
residual Nisk is.		∠ Acceptable		☐ Acce	plable \	MILLI CINDA			ochianie

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End Effect:	Label - Other information	on and redundar		rdous tion(s):	HS HS HS	.PIT.5.1 .PIT.5.2 .PIT.5.3 .PIT.5.4 .PIT.5.5	
Acceptability Assessment:	☐ Case I	☐ Case	e II		Case	e III	☐ Case IV
Units are visually in inspection for cosm	dated and machine setup ispected for defects in-pletic defects. Individual in the generally acknowle	rocess and duri residual risk for	ng packin these haz	g. Final rel	ease	visual ins	pections include
Residual Risk is:		☐ Ac	ceptable	with cRBA		☐ Unac	ceptable
End Effect:	Leachables			rdous tion(s):	HS	.PIT.19.1	
Acceptability Assessment:	☐ Case I	⊠ Case	e II		Case	e III	☐ Case IV
Design controls to a supplier certification. Trace metal levels a pharmacopoeias ar Stability is also a pasafe to use and ma This product is in controls.	is ensured during receiving and inspection activities. educe the presence of raw material organic or non-organic contaminants include material and in. Requirements are in place to control the materials to be used in these products. are also evaluated as part of the chemical testing when qualifying the material as per local and/or local and federal regulations. oduct requirement which ensures through design verification that the product remains sterile, intains its functionality through the whole period of its shelf life. ompliance with USP <1663> and <1664> and regional pharmacopeia requirements. isk for this hazardous situation is reduced as far as possible (AFAP) considering the generally						
Residual Risk is:		☐ Ac	ceptable	with cRBA		☐ Unac	ceptable
		•					
End Effect:	Leak			rdous tion(s):	HS HS HS HS HS HS	.PIT.6.2 .PIT.6.3 .PIT.18.1 .PIT.18.2 .PIT.18.3 .PIT.18.4 .PIT.18.5 .PIT.21.3 .PIT.21.5 .PIT.27.8	
Acceptability Assessment:	☐ Case II ☐ Case IV ☐ Case IV						
	laterial selection and glass container parameters are designed to maintain container closure integrity during nanufacturing, distribution and use. Design is verified with distribution and use testing. Vials and Bottles are						

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inspected for leakages during manufacturing. Manufacturing controls and specifications are in place to ensure that the product is manufactured as per the respective specification and to ensure that its integrity is maintained throughout the entire shelf-life. Verification of the design ensures the components and materials are tested to demonstrate that the product meets the product requirements. Manufacturing mitigations include packaging material incoming inspections, in-process testing, and 100% visual inspection to ensure that the product meets all specifications. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable with cRBA Unacceptable **End Effect:** Leak - After completion of therapy **Hazardous** HS.PIT.6.2 Situation(s): HS.PIT.6.3 HS.PIT.27.8 HS.PIT.27.9 **Acceptability** ☐ Case I ☐ Case II ☐ Case IV Assessment: Material selection and container parameters are designed to maintain container integrity during manufacturing, distribution and use. This design is verified with distribution. Disconnecting the vial or bottle from a set/syringe requires standard clinical practice to prevent a leak after therapy. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable ☐ Acceptable with cRBA Unacceptable End Effect: Leak - Prior to initiation of therapy **Hazardous** HS.PIT.5.1 Situation(s): HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 HS.PIT.6.2 HS.PIT.6.3 HS.PIT.27.8 HS.PIT.27.9 Acceptability ☐ Case I ☐ Case II ☐ Case IV Assessment: Material selection and container parameters are designed to maintain container integrity during manufacturing, distribution. This design is verified with distribution. Vials and Bottles are inspected for leakages during manufacturing and use. Verification of the design ensures the components and materials are tested to demonstrate that the product meets the product requirements. Manufacturing mitigations include raw material incoming inspections, in-process testing, and final physical release testing to ensure that the product meets all specifications.

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Connecting the vial	or bottle to a set/syring	e require	es standard	d clinica	al practice t	o pre	event a lea	k prior to therapy.
	isk for these hazardous dged state of the art.	situatio	ns is reduc	ed as f	ar as possi	ble (AFAP) con	nsidering the
Residual Risk is:			☐ Acce	ptable	with cRBA		☐ Unac	ceptable
End Effect:	Loose Components	oose Components Hazardous Situation(s): HS.PIT.27.1 HS.PIT.27.8						
Acceptability Assessment:	☐ Case I	[☐ Case II		\boxtimes	Case	e III	☐ Case IV
clinical professional Appropriate disposa hanger are dispose Individual residual r	d to include a stopper a . The bottle hanger is in al of therapy component d and requires good sta isk for these hazardous dged state of the art.	cluded f s is requ ndard cl	or direct in uired to ens inical pract	fusion sure co sice.	and is hand mponents I	dled I like tl	oy clinical ne stopper	professionals. r, flip cap or bottle
Residual Risk is:		☐ Acceptable ☐ Acceptable with cRBA ☐ Unacceptable						
End Effect:	Manufacturing - Concel Specification	Manufacturing - Concentration Out of Specification Hazardous Situation(s): HS.PIT.13.1 HS.PIT.13.2 HS.PIT.13.3 HS.PIT.13.5 HS.PIT.13.6 HS.PIT.13.7						
Acceptability Assessment:	☐ Case I		⊠ Case II			Case	e III	☐ Case IV
Multiple preventative during mixing. Calib weighing. Additional Continuous monitor concentration is veron Representative unit. The labeling indicate Methods and limits.	e controls are in place to prated scales and measually, mixing parameters a ing and visual inspection ified via in process testing s of finished product are es the composition of the conform to pharmacope isk for these hazardous dged state of the art.	urement are contr n are en ng prior, e selecte ne produ eias, regi	systems a colled on quaphoyed to as well as defrom each ct.	re used ualified ensure finished th batch macope	d and verifice equipment that the pared product the for final testings and/or	ed du with arametestin estino local	uring active validated eters are nag.	e drug substance(s) process parameters. net. Solution al regulations.
Residual Risk is:			☐ Acce	ptable	with cRBA		☐ Unac	ceptable

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s	Manufacturing - Excipie specification or use of in excipient		Hazar Situat	dous tion(s):	HS.PIT.11.1 HS.PIT.22.1 HS.PIT.22.2 HS.PIT.13.5 HS.PIT.13.6 HS.PIT.13.7			
Acceptability Assessment:	☐ Case I	□ Case	II		Case III	☐ Case IV		
mixing as per applica raw material weighing parameters. Continuo Solution concentratio	ple preventative controls are in place to prevent the addition of incorrect quantities of raw materials during as per applicable batch records. Calibrated scales and measurement systems are used and verified during naterial weighing. Additionally, mixing parameters are controlled on qualified equipment with validated process meters. Continuous monitoring and visual inspection are employed to ensure that the parameters are met. ion concentration is verified via finished product testing for functional excipients, as applicable.							
	·	ne composition of the product.						
Methods and limits of	conform to pharmacope	nform to pharmacopeias, regional pharmacopeias and/or local and federal regulations.						
Individual residual ris	sk for these hazardous situations is reduced as far as possible (AFAP) considering the ged state of the art.							
Residual Risk is:		☐ Acc	eptable	with cRBA	☐ Unac	ceptable		
	Manufacturing - Organi s above threshold value		Hazar Situat	dous tion(s):	HS.PIT.11.1			
Acceptability Assessment:	☐ Case I	□ Case	II		Case III	☐ Case IV		
	to reduce the presence ties, and supplier certifi		contami	nants inclu	ding material s	election, receiving		
Methods and limits of Manufacturing control respective specificati	conform to pharmacopeias, regional pharmacopeias and/or local and federal regulations. ols and specifications are in place to ensure that products are manufactured as per the ions and to ensure that it maintains the product quality, safety, and efficacy throughout the products have been developed in accordance with applicable standards to meet the							
·	o, the respective stability studies ensure that the test result remains within the established limits during shelf life. s, it is unlikely to have the impurities being out of accepted criteria from product process.							
·	sk for these hazardous			•	·	nsidering the		
Residual Risk is:		Acc	eptable v	with cRBA	☐ Unac	ceptable		

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

End Effect: Manufacturing - pH Extremes Hazardous HS.PIT.11.1 Situation(s): HS.PIT.13.5 HS.PIT.13.6 HS.PIT.13.7 HS.PIT.24.1 Acceptability ☐ Case I □ Case II Case III ☐ Case IV Assessment: Design controls are in place to target and maintain product pH throughout shelf life. Requirements are in place to control the materials to be used in these products. Methods for pH conform to local pharmacopeias and/or local and federal regulations or published literature. As there are product formulations within this product family that are outside the range of 6 to 9, the P1 for HS.PIT.24.1 is 1,000,000. The RBA will further discuss the risk benefit analysis regarding this hazardous situation. There are formulations within this product family where the pH of the product is outside the range of 6-9. Therefore inherently the patient may always have exposure to this set of hazardous situations when receiving therapy. The efficacy of this therapy is dependent on the formulation at the specified pH. Although further mitigations may be available, it will not allow for the product to provide the therapy as intended if formulated to be within the range of 6-9. Therefore further mitigations will not improve patient safety. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable with cRBA Unacceptable **End Effect:** Manufacturing - Product is not sterile Hazardous HS.PIT.21.5 Situation(s): Acceptability ☐ Case IV ☐ Case I ☐ Case II Assessment: The sterilization process is validated to a SAL of 10⁻⁶. The product is designed to be contained in sterile primary packaging to be protected from external contamination. Verification of the design ensures the components and materials, including the primary packaging, are tested to demonstrate that the product meets product requirements. The product is designed with materials and interfaces so that it allows for complete sterilization without deterioration to the product itself or of its packaging. Sterilization cycles are validated and monitored to ensure that product components and packaging are not damaged or deteriorated during the cycle. Specifically, sterilization parameters are set to produce a sterile product while not damaging or degrading the packaging or the product itself. Finished product sterility test is performed before product release. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art.

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Residual Risk is:

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Acceptable

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☐ Acceptable with cRBA

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Unacceptable

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

End Effect: HS.PIT.7.1 Manufacturing - Product is pyrogenic Hazardous Situation(s): **Acceptability** ☐ Case I ☐ Case III ☐ Case IV Case II Assessment: Endotoxin and pyrogen are mainly introduced from raw materials and components. Endotoxins are controlled for raw material and components to reduce endotoxin/pyrogen introduction. Bioburden tests are performed to limit endotoxin in-process. Besides, endotoxin is tested on finished product to reduce the risk. For solution products endotoxin control is demonstrated by performing the Limulus Amebocyte Lysate (LAL) test. Baxter performs LAL testing in accordance with USP Chapter <85>. Endotoxin limits for solution products are set in accordance with the pharmacopeia and are compliant with both the intended use of the product (i.e. maximum posology) and any compendial limits (monographs). All methods are appropriately validated prior to implementation in accordance with applicable standards. Methods and limits conform to local pharmacopeias and/or local and federal regulations. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable ☐ Acceptable with cRBA Unacceptable End Effect: Manufacturing - Residual solvent is Hazardous HS.PIT.11.7 above threshold value Situation(s): HS.PIT.11.8 HS.PIT.11.9 HS.PIT.11.10 Acceptability ☐ Case II ☐ Case IV ☐ Case I □ Case III **Assessment:** Residual solvents in drug products are mainly introduced from raw material (API and excipients). Procedures are in place (raw material specifications, release testing of materials before use) to ensure residual solvents are at levels below established limits. Thus, it is unlikely to have residual solvents in products beyond established limits as per applicable pharmacopeias, regional pharmacopeias and/or local and federal regulations Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: Acceptable Acceptable with cRBA Unacceptable **End Effect:** Manufacturing - Solution contains Hazardous HS.PIT.4.1 transmissible spongiform Situation(s): encephalopathies (TSEs and BSEs) Acceptability ☐ Case I □ Case II Case III ☐ Case IV Assessment: Controls to reduce the presence of raw material contaminants include material selection, receiving and inspection

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activities, and supplier certification.

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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Material selections	Material selections conform to local pharmacopeias and/or local and federal regulations.							
equipment from out template, Evaluation	the evaluation of incoming raw materials, manufacturing materials, primary packaging materials and disposable quipment from outside suppliers for Baxter manufactured products adhere to GQP-12-08 or supplier harmonized emplate, Evaluation of TSE and Virus Risks for Materials Used in Baxter Processes and are confirmed during lient audits and periodic checks.							
	ndividual residual risk for this hazardous situation is reduced as far as possible (AFAP) considering the generally icknowledged state of the art.							
Residual Risk is:			☐ Acce	ptable v	with cRBA		Unaco	ceptable
End Effect:	allergen contaminants Situation(s):							
Acceptability Assessment:	essment: Case II Case III Case III Case III							
	ntrols to reduce the presence of raw material allergens include material selection, receiving and inspection vities, and supplier certification.							
Methods and limits	conforms to pharmacope	eias, reg	gional phar	rmacop	eias and/or	· local a	and fede	ral regulations.
	risk for these hazardous dged state of the art.	situatior	ns is reduc	ed as fa	ar as possil	ble (AF	FAP) con	sidering the
Residual Risk is:			☐ Acce	ptable v	with cRBA		Unaco	ceptable
Manufacturing - System does not contain defined volume - High Hazardous Situation(s): HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.5 HS.PIT.10.1 HS.PIT.10.1 HS.PIT.10.2 HS.PIT.10.3 HS.PIT.10.3 HS.PIT.10.3 HS.PIT.10.4								
Acceptability Assessment:	Assessment: Case II Case II Case III Case III Case IV							
	Fill Volume is a validated process parameter. During filling, the fill volume is checked regularly at pre-determined intervals. Fill volume measurement is performed during in-process and final release testing using validated methods.							
ndividual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art.								

AMDRISKVIALSANDBOTTLES

Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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Residual Risk is:			☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
						•		
End Effect:	Manufacturing - System does not contain defined volume - Low			Hazar Situat	rdous tion(s):	HS HS HS HS HS HS	.PIT.5.1 .PIT.5.2 .PIT.5.3 .PIT.5.4 .PIT.5.5 .PIT.11.1 .PIT.16.1 .PIT.16.2 .PIT.16.3	
Acceptability Assessment:	☐ Case I		☐ Case II		\boxtimes (Case	: III	☐ Case IV
Fill Volume is a vali intervals Fill volume methods.	dated process parameter. During filling, fit measurement is performed during in-process for these hazardous situations is reduced state of the art.			ess an	d final relea	ase te	esting usin	ng validated
Residual Risk is:			☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
End Effect:	Manufacturing - Trace r threshold value	netal is a	above	Hazar Situat	dous tion(s):	HS HS	.PIT.11.3 .PIT.11.4 .PIT.11.5 .PIT.11.6	
Acceptability Assessment:	☐ Case I		☑ Case II			Case	e III	☐ Case IV
Design controls to r supplier certification Trace metal levels a pharmacopoeias an impurities to determ regards to the elem Individual residual r	educe the presence of rank. Requirements are in pare also evaluated as pand/or local and federal relation which control and from ental impurity requirements.	lace to durt of the gulation equency ents.	control the chemical s. A risk-b need to b	materia testing ased a e put ir	als to be us when qualit pproach ha n place to et	ed in fying s bee	these pro the mater en adopted e the produ	oducts. rial as per local d for elemental uct compliance in
Residual Risk is:	□ Acceptable		☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
End Effect:	Manufacturing - Use of	Incorrec	t Drug	Hazar Situat	dous tion(s):	HS	.PIT.14.1	

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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Acceptability Assessment:	☐ Case I	[☐ Case II			Case	e III	☐ Case IV
	reduce the use of incorred materials to be used in source correct drug.							
	risk for these hazardous dged state of the art.	situatior	ns is reduc	ed as f	ar as possil	ble (A	AFAP) cor	nsidering the
Residual Risk is:			☐ Accep	otable v	with cRBA		☐ Unac	cceptable
End Effect:	Overfill of container dur compounding	ing		Hazar Situat	dous tion(s):	HS	.PIT.10.1 .PIT.10.2 .PIT.10.3	
Acceptability Assessment:	☐ Case I		☐ Case II		\boxtimes	Case	e III	☐ Case IV
to instruct the user	cludes product concentra about correct dose volur as is reduced as far as p	me and	compatible	IV solu	utions. Indiv	∕idua	ıl residual	risk for these
Residual Risk is:			☐ Accep	otable v	with cRBA		☐ Unac	cceptable
						•		
End Effect:	Potency Impact - Conce	entration	1	Hazar Situat	dous tion(s):	HS	.PIT.13.3 .PIT.13.4 .PIT.13.7	
Acceptability Assessment:	☐ Case I		⊠ Case II			Case	e III	☐ Case IV
Once received mat	erial, storage and releas	e of the	material is	contro	lled.			
Representative uni	ts of finished product are	selecte	d from eac	h batch	n for final te	esting] .	
The labeling indicate	tes the composition of th	e produ	ct.					
Preprinted labels a labeling printed dur	proved by each regulato re inspected at R&I and ing the manufacturing po- ality inspections are perf	use of the	ne correct la correct prin	abel is it inforn	verified dui	ring b quali	oatch man ty are veri	nufacturing. For ified at set-up. Print
	risk for these hazardous dged state of the art.	situatior	ns is reduc	ed as f	ar as possil	ble (A	AFAP) cor	nsidering the
Residual Risk is:			☐ Accep	otable v	with cRBA		☐ Unac	cceptable
						•		
End Effect:	Product not used as sir	igle dos	e only	Hazar Situat	dous tion(s):	HS	.PIT.21.5 .PIT.23.1 .PIT.23.2	

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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Acceptability Assessment:	☐ Case I		Case II			Cas	e III	☐ Case IV
Label states: Discard after single Discard any unuse Do not reconnect p								
Preprinted labels a	re inspected at R&I and	use of th	e correct	label is	verified prid	or to	batch ma	nufacturing
Disposal of therapy	components is dependent	ent on st	andard go	od clini	cal practice	€.		
	risk for these hazardous edged state of the art.	situation	is is reduc	ed as f	ar as possi	ble (AFAP) cor	nsidering the
Residual Risk is:			☐ Acce	ptable ¹	with cRBA		☐ Unac	ceptable
						_		
End Effect:	Separation of Solution			Hazar Situa	rdous tion(s):	HS HS HS	S.PIT.5.1 S.PIT.5.2 S.PIT.5.3 S.PIT.5.4 S.PIT.5.5 S.PIT.28.1	
Acceptability Assessment:	lity							
appropriate compo Stability studies ha Individual residual	process is designed and sition and purity. Vials a ve been performed to increase for these hazardous adged state of the art.	and Bottle	es are 100 ability of th)% visu ne emul	ally inspect	ed.	·	
Residual Risk is:			☐ Acce	ptable	with cRBA		☐ Unac	ceptable
End Effect:	Shipping Issue	T		Hazar Situa	rdous tion(s):	HS	S.PIT.5.5	
Acceptability Assessment:	☐ Case I		☐ Case II					☐ Case IV
The product's shipping packaging is designed to facilitate user handling and prevent damage during shipping and transportation. The product is designed to have a specific number of products per shipping carton. Design Verification includes distribution testing, which evaluates the presence of product in the packaging, checks the quantity of items placed in the packaging, and verifies the overall packaging design. Manufacturing mitigations include incoming inspections for raw material and carton boxes, in-process testing, and 100% visual inspection to ensure that the product meets all specifications. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art.								

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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Residual Risk is: Acceptable Acceptable with cRBA **End Effect:** System does not contain intended Hazardous HS.PIT.10.1 volume - High Situation(s): HS.PIT.10.2 HS.PIT.10.3 HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 Acceptability ⊠ Case II ☐ Case I ☐ Case III Assessment: Product container labels and carton labels are designed to convey the correct volume of the system. Controls are in place to ensure accuracy of product labelling. Preprinted labels are inspected at R&I and use of the correct label is verified prior to batch manufacturing. Further, the product is designed to confirm that correct volumes are delivered. Controls are in place to ensure the correct volume is used during manufacturing. Qualified equipment with validated process parameters are used for container filling. Continuous monitoring and visual inspection are employed to ensure that the parameters are met. Representative units of the finished product are selected from each batch for final testing. Methods and limits conform to local pharmacopeia and/or local and federal regulations Stability study verified extractable volumes during shelf life. Individual residual risk for these hazardous situations is reduced as far as possible (AFAP) considering the generally acknowledged state of the art. Residual Risk is: ☐ Acceptable with cRBA End Effect: System does not contain intended **Hazardous** HS.PIT.16.1 volume - Low Situation(s): HS.PIT.16.2 HS.PIT.16.3 HS.PIT.5.1 HS.PIT.5.2 HS.PIT.5.3 HS.PIT.5.4 HS.PIT.5.5 Acceptability ☐ Case I □ Case II ☐ Case III **Assessment:** Product container labels and carton labels are designed to convey the correct volume of the system. Controls are in place to ensure accuracy of product labelling. Preprinted labels are inspected at R&I and use of the correct label is verified prior to batch manufacturing. Further, product is designed to confirm that correct volumes are delivered. Controls are in place to ensure the correct volume is used during manufacturing, Qualified equipment with validated process parameters are used for container filling. Continuous monitoring and visual inspection are employed to ensure that the parameters are met. Representative units of finished product are selected from each batch for final testing. Methods and limits conform to local pharmacopeia and/or local and federal regulations Stability study verified extractable volumes during shelf life.

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Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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	risk for these hazardous edged state of the art.	s situatio	ns is reduc	ed as f	ar as possil	ble (AFAP) cor	nsidering the
Residual Risk is:			☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
End Effect:	System does not delive volume	er intend	ed	Hazar Situat	dous tion(s):	HS HS HS HS	S.PIT.16.1 S.PIT.16.2 S.PIT.16.3 S.PIT.18.1 S.PIT.18.2 S.PIT.18.3 S.PIT.18.4 S.PIT.18.5	
Acceptability Assessment:	☐ Case I		⊠ Case II			Case	e III	☐ Case IV
the correct volume for container filling. met. Representative uni Methods and limits Stability study verif Individual residual	d to confirm that correct is used during manufact Continuous monitoring its of finished product are conform to local pharm ied extractable volumes risk for these hazardous adged state of the art.	turing, Q and visu e selecte acopeia during s	ualified eq al inspection ad from eac and/or loca shelf life.	uipmer on are ch batcl al and f	nt with valid employed to n for final te ederal regu	ated o en esting	process p sure that the g.	parameters are used the parameters are
Residual Risk is:			☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
End Effect:	Underfill of container d	uring		Hazar			S.PIT.16.1	
	compounding			Situa	tion(s):		S.PIT.16.2 S.PIT.16.3	
Acceptability Assessment:	☐ Case I		☐ Case II			Case	e III	☐ Case IV
to instruct the user	cludes product concentr about correct dose volu s is reduced as far as p	me and	compatible	IV solu	utions. Indiv	vidua	al residual	risk for these
Residual Risk is:	□ Acceptable		☐ Acce	ptable v	with cRBA		☐ Unac	ceptable
Conclusion: ☑ All Hazardous S	ituations have been add	Iressed i	n this Risk	Assess	sment			

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DOCUMENT TITLE: Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

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11. CHANGE HISTORY							
Revision	Description of change						
Α	Refer to Revision A Change History form for BXU579481 document						
В	Refer to Revision B Change History form for BXU579481 document						



TcU ELECTRONIC SIGNATURE REPORT

REVISION INFORMATION				
Item ID: BXU579481	Revision ID: B			
Item Name: Ahmedabad Vials and Bottles Risk	Release Date: 19-Sep-2024			
Assessment and Control Table (RACT)				

Description: Ahmedabad Vials and Bottles Risk Assessment and Control Table (RACT)

CHANGE INFORMATION

CN/CR Number (if applicable):

Description of Change (This field will be blank if required data is not available):

The Risk Assessment and Control Table is updated to align with:

- Latest GQT-10-02-01 Template
- Latest UEA document
- New UCL data received for last 2 years
- · Latest PFMEA End Effect mapping
- Latest STDA and HSHA-PIT

Reason for Change (This field will be blank if required data is not available):

Risk Assessment and Control Table needs to be updated to align with latest GQT-10-02-01 Template, UEA, PFMEA, STDA, HSHA as necessary for the Periodic Risk Review

APPROVALS & SIGNATURES for Document Release				
Name	Role	Workflow Step	Date of Signature	Decision Taken
S, Anbarasan	Author	Initiate Review	06-Sep-2024	Approved
Wu, Jian	Clinical	Document Review - SME & Quality	06-Sep-2024	Approved
Choubey, Anupam Kumar	SME	Document Review - SME & Quality	09-Sep-2024	Approved
Mishra., Deepak	SME	Document Review - SME & Quality	11-Sep-2024	Approved
Milliman, Ann M.	Quality	Document Review - SME & Quality	18-Sep-2024	Approved
Johnson, Thomas	Change Specialist 3	Release Document(s)	19-Sep-2024	Approved
Johnson, Thomas	Change Specialist 3	Set Effectivity	19-Sep-2024	Approved

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