DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION				
300 River Place, Suite 5900	1/31/2022-3/18/2022*				
Detroit, MI 48207	FEI NUMBER				
(313) 393-8100 Fax: (313)393-8139	1815692				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED TJ Hathaway, Site Director					
FIRM NAME	STREET ADDRESS				
Abbott Laboratories dba Abbott Nutrition	901 N Centerville Rd				
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED				
Sturgis, MI 49091-9302	Infant Formula Manufacturer				

This document lists observations made by the FDA representative(s) during the inspection of your facility. They are inspectional observations, and do not represent a final Agency determination regarding your compliance. If you have an objection regarding an observation, or have implemented, or plan to implement, corrective action in response to an observation, you may discuss the objection or action with the FDA representative(s) during the inspection or submit this information to FDA at the address above. If you have any questions, please contact FDA at the phone number and address above.

## DURING AN INSPECTION OF YOUR FIRM WE OBSERVED: OBSERVATION 1

You did not establish a system of process controls covering all stages of processing that was designed to ensure that infant formula does not become adulterated due to the presence of microorganisms in the formula or in the processing environment.

Specifically,

A. FDA environmental samples collected on 2/1/22-2/2/22 during this inspection confirmed the presence of *Cronobacter sakazakii* on zone two and zone three surfaces in medium and high care areas of powdered infant formula production, as indicated by firm management and Policy Document ANPPR06-003 "Zone Definitions" (version 2.0, effective date 5/18/16) which defines low, medium, and high care areas.

Positive environmental sites for Cronobacter sakazakii were as follows:

1. In the packaging room for filler line<sup>b14</sup> the hinge attachment and bolt heads on the top, clear cover of the scoop hopper was swabbed and was positive for *Cronobacter sakazakii*. This scoop hopper is utilized to feed scoops, which are placed directly inside infant formula containers and contact product. This was collected from a zone two surface. You consider this a high care area. At the time

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OF THIS PAGE	John N Woodall, Investigator	Alexandra A Carr co investigator Signed By: Alexandra A, Carr co -	
	Elizabeth P Mayer, National Expert	State Signet: 03-18-2022 X 1:9:32	
	Danny Tuntevski, Investigator	<u></u>	-
	Christi L Bellmore, Investigator		
	Brittany A Mckenzie, Investigator		
	Daniel B Arrecis, Investigator		
	Rohn R Robertson, Inspector		
	Liliya V Bubiy, Investigator		
	Ana E Morales, Investigator		
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Abbott Laboratories dba Abbott Nutrition	901 N Centerville Rd			
CITY, STATE, ZIP CODE, COUNTRY Sturgis, MI 49091-9302	TYPE ESTABLISHMENT INSPECTED Infant Formula Manufacturer			
immediate surrounding floor was swabbed an	e of a structural support piece of $^{(b)}$ (4) dryer $\#^{(b)}$ and the d was positive for <i>Cronobacter sakazakii</i> . This was ider this a medium care area. At the time of swabbing,			
3. In the(b) (4) Room on the(b) (4) of <sup>(b) (4)</sup> dryer # <sup>(b)</sup> there was duct tape on the floor; debris was observed beneath and on top of the duct tape. The area between the duct tape and the wall was swabbed and was positive for <i>Cronobacter sakazakii</i> ; this area was directly across from the door entry into the room. This was collected from a zone three surface. You consider this a medium care area. At the time of swabbing. <sup>(b) (4)</sup> dryer <sup>(a)</sup> was in a CIP cycle.				
(b) (4) door was swabbed and was positive f zone three surface. You consider this a mediu was in a CIP cycle.	(b) (4) of (b) (4) dryer (b) (4) the floor and the (b) (4) or <i>Cronobacter sakazakii</i> . This was collected from a m care area. At the time of swabbing, (b) (4) dryer $\#$ meental samples and finished product testing confirmed			
	the presence of <i>Cronobacter</i> spp. in medium and high tion through sampling on eight occasions between			
SEE REVERSE OF THIS PAGE Alexandra A Carrico, Investi John N Woodall, Investigator Elizabeth P Mayer, National Danny Tuntevski, Investigator Christi L Bellmore, Investig Brittany A Mckenzie, Investigator Daniel B Arrecis, Investigator Liliya V Bubiy, Investigator Ana E Morales, Investigator Nicholas E Boyd, Investigator	Expert gator tigator tor C			
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Detroit, MI 48207	FEI NUMBER				
(313) 393-8100 Fax:(313)393-8139	1815692				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED					
TJ Hathaway, Site Director					
FIRM NAME Abbott Laboratories dba Abbott Nutrition	STREET ADDRESS 901 N Centerville Rd				
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED				
Sturgis, MI 49091-9302	Infant Formula Manufacturer				
<ul> <li>10/10/19 and 2/2/22; two of those samples were taken during sister swabbing with the FDA. During the root cause analysis initiated in response to FDA environmental samples collected on 2/1/22-2/2/22 and your sister swabs collected on 2/1/22, your firm identified the presence of <i>Cronobacter</i> spp. in low, medium, and high care areas of powdered infant formula production on 20 occasions between 2/6/22-2/20/22.</li> <li>2. <u>Finished Product:</u> Review of your firm's Non-Conformance Reports (NCRs) indicated that two finished products tested positive for <i>Cronobacter</i> spp. as follows:</li> </ul>					
	<ul> <li>NCR(b) (4) (9/25/19) for Similac Alimentum infant formula powder (batch (b) (4). This powdered infant formula was dried on (b) (4) dryer dry blended with xanthan gum, and filled on filler line #</li> </ul>				
<ul> <li>ii. NCR (b) (4) (6/22/20) for Similac for S This powdered infant formula was dried o filled on filler line #</li> </ul>	pit-Up infant formula powder (batch (b) (4)). $n^{(b)}$ (4) dryer dry blended with rice starch, and				
C. On 1/31/22, water was observed in the <sup>(b) (4)</sup> drye. Total Comfort infant formula powder (batch (b)	$ \begin{array}{c} \texttt{(b)} (4) \\ \texttt{(4)} \\ \vdots \end{array} $ while the $\texttt{(b)} (4) \\ \texttt{(b)} (4) \\ \vdots \\ \end{array} $ dryer was running Similac				
<ol> <li>On the (b) (4), water was on the floor due This water was dripping from the valves onto was the result of a(b) (4), wh Water events associated with the inlet (b) (4)</li> </ol>	the (b) (4) floor. Per firm management, the leak nich was compromised (Work Order $#90361314$ ).				
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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INS	PECTIONAL OBSERVATIONS PAGE 3 of 9 PAGES				

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TJ Hathaway, FIRM NAME	Site Director	STREET ADDRESS		
Abbott Labora	atories dba Abbott Nutrition	901 N Cei Type establishmei	nterville Rd	
Sturgis, MI	A second s	Second Second Second	ormula Manufacturer	
A set of the set of th	558), 11/4/21 (Work Order #90094256 00329087). b) (4) , water was around the floo		Order #90094248) and 1/21/ r the potassium hydroxide (K	
3. On the	b) (4), water was at the floor/wa	all junction r	near the floor scrubber.	
4. In the ba $(b) (4)$	sement, water was on the floor by the system of (b) $(4)$	e(b) (4)	which was adj	acent to the
	observed in powdered infant formation dated 9/20/21-9/24/21.	ula producti	ion areas is a repeat observ	vation from
condensation	-2/1/22, your firm identified 310 wate n in dry powdered infant formula proc upment in these areas.		-	
and the second se	<b>DN 2</b> sure that all surfaces that contacted in eing contaminated by any source.	nfant formu	la were maintained to prote	ect infant
Specifically,				
<b>A.</b> $(b) (4)$ dryers	(b) (4) are CIP'd at a minimum o	<b>f</b> (b) (4)	. From 12/31/19-2/4/22.	(b) (4) dryei <sup>(b) (4)</sup>
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Alexandra A Carrico, Investi John N Woodall, Investigator Elizabeth P Mayer, National Danny Tuntevski, Investigator Christi L Bellmore, Investig Brittany A Mckenzie, Investi Daniel B Arrecis, Investigator Rohn R Robertson, Inspector Liliya V Bubiy, Investigator Ana E Morales, Investigator Nicholas E Boyd, Investigator Adam M True, Investigator	r Expert or gator igator tor r	Alesandra A Carr co Investigator Signed By Alexandra A Carr co- Care Signed 19-18-2022 X 1 : 5.3	DATE ISSUED 3/18/2022
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL O	BSERVATIONS	PAGE 4 of 9 PAGES

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Detroit, MI 4	ace, Suite 5900	DATE(S) OF INSPECTION 1/31/2022-3/18/2022* FEI NUMBER 1815692
NAME AND TITLE OF INDIVIDUA	L TO WHOM REPORT ISSUED Site Director	
FIRM NAME	atories dba Abbott Nutrition	street ADDRESS 901 N Centerville Rd
CITY, STATE, ZIP CODE, COUN Sturgis, MI	Construction of the second	TYPE ESTABLISHMENT INSPECTED Infant Formula Manufacturer
<ul> <li>water is introperformed. F step is (b) ( were not valid B. Per your firm deterioration showed six i instances of dryer Ter</li> <li>Furthermore, boy production envir products.</li> <li>OBSERVATION Your investigate exists and the basis</li> </ul>	boduced into the <sup>(b) (4)</sup> dryer environmed For <sup>(b) (4)</sup> dryer # the dry-out step is In addition, manager idated to ensure complete drying is ad ating back to September 2018. The enstances of cracks and pits in the main cracks, pits and damage in the main of an cracked braces were also identified th FDA and your firm found evidence comment. Your firm also identified <i>Cr</i>	<ul> <li>(4) dryers (b) (4) have a history of internal e most recent <sup>(b) (4)</sup> dryer inspections in August 2021 in chamber were recorded for <sup>(b) (4)</sup> dryer # and six chamber and (b) (4) were recorded for <sup>(b) (4)</sup></li> </ul>
	nspection we followed-up on the follo d at your facility:	owing FDA consumer complaints, which were all
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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	SPECTIONAL OBSERVATIONS PAGE 5 of 9 PAGES

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	tories dba Abbott Nutrition		terville Rd	
CITY, STATE, ZIP CODE, COUNT Sturgis, MI 4		TYPE ESTABLISHMEN Infant Fo	ormula Manufacturer	
with 7 oz Nutrition 2. FDA Con	nsumer Complaint # 171222 detailing z. Similac Pro-Total Comfort infant fo complaint ID: 554270) nsumer Complaint # 170177 detailing ac Sensitive infant formula powder v	ormula powd g a <i>Cronobac</i>	er with batch #(b) (4)	(Abbott
3. FDA Cor	nsumer Complaint # 171771 detailing ac Advance infant formula powder w			
	nsumer Complaint # 171087 detailing Alimentum infant formula powder wi			
Salmonella n	int investigations did not identify the <i>ewport</i> illnesses reported from these s treated infant death and infant illne	complaints.		
(version 25,	rd Operating Procedure (SOP) AN04 effective date 2/28/21 and version 26 I for microbial analysis in the followi	, effective da	te 12/21/21) states that re	
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Alexandra A Carrico, Invest: John N Woodall, Investigator Elizabeth P Mayer, National Danny Tuntevski, Investigator Christi L Bellmore, Investig Brittany A Mckenzie, Investig Daniel B Arrecis, Investigator Rohn R Robertson, Inspector Liliya V Bubiy, Investigator Ana E Morales, Investigator Nicholas E Boyd, Investigator	r Expert or gator igator tor r	Alexandra A Carr co investigato Signed By Alexandra A Carr co- <u>Signed By Alexandra A Carr co- X 1:5.32</u>	DATE ISSUED 3/18/2022
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300 River Place, Suite 5900	1/31/2022-3/18/2022*
Detroit, MI 48207	FEI NUMBER
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TJ Hathaway, Site Director	
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Abbott Laboratories dba Abbott Nutrition	901 N Centerville Rd
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Sturgis, MI 49091-9302	Infant Formula Manufacturer
food poisoning, bacterial contamination, infec	on a case by case basis (such as Cronobacter species, ction, etc.)" he complaint investigation that there is a potential for

Consumer Complaint # 171222 (Abbott Nutrition complaint ID: 554270) detailing a *Cronobacter* sakazakii illness and death associated with 7 oz. Similac Pro Total Comfort infant formula powder with batch #(b)(4) During the investigation of this complaint, the Abbott Nutrition Medical Safety and Surveillance (ANMSS) team did not request that retain samples be tested for this lot in accordance with SOP AN04-01-001 "Complaint Management and Investigations". The final medical and quality assessments for this Complaint Detail Report were signed on 1/5/22.

## **OBSERVATION 4**

Personnel working directly with infant formula, its raw materials, packaging, or equipment or utensil contact surfaces did not wear necessary protective apparel.

Specifically,

A. On 1/31/22, in (b) (4) dryer (b) (4) we observed an employee exit the elevator and enter the room with the (b) (4) , passing by a shoe spray station and failing to spray the soles of their shoes with

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	Elizabeth P Mayer, National Expert	Batte Signed 03-18-2022	
	Danny Tuntevski, Investigator	× ···	-
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	Daniel B Arrecis, Investigator		
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	Liliya V Bubiy, Investigator		
	Ana E Morales, Investigator		
	Nicholas E Boyd, Investigator		
	Adam M True, Investigator		

	DEPARTMENT OF HEAL FOOD AND DRUG			
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Sturgis, MI 4		TYPE ESTABLISHME	ent INSPECTED 'ormula Manufacturer	
<ul> <li>sanitizer. At the same time this was observed, the nozzle of the sanitizer bottle was set to stream instead of spray while other individuals were spraying the soles of their shoes, which did not allow a uniform coating of sanitizer on the soles of shoes. This was observed while <sup>(D)(4)</sup> dryer <sup>#</sup> was running Similac Total Comfort infant formula powder (batch #(D)(4)).</li> <li>B. On 2/24/22, your firm provided a draft root cause analysis dated 2/8/22 in response to the FDA environmental samples collected on 2/1/22-2/2/22 and your sister swabs collected on 2/1/22. You then provided an explanation of the root cause analysis, stating that from 1/24/22-2/9/22 approximately. <sup>(D)(4)</sup> contractors were present at the firm to perform work in Building primarily in the <sup>(D)(4)</sup> dryer <sup>(D)(4)</sup>. The contractors walked on the roof with their captive footwear; upon returning into the building, they did not sanitize nor change their shoes.</li> <li>These actions do not comply with your SOP ST-1000.08 "Dress Code and Personal Hygiene" (version 58, effective date 11/5/21), which states that "Contractors shall bag outdoor non-captive safety shoes and walk them to the designated shoe changing areas to change from captive safety shoes to non-captive safety shoes. Upon re-entering the plant, the process will reverse in order and outdoor non-captive shoes will be bagged and returned to their designated cubby or storage location."</li> <li>Furthermore, the FDA found evidence of <i>Cronobacter sakazakii</i> in <sup>(D)(4)</sup> dryer (D) (4) from environmental samples collected on 2/1/22. Your firm found evidence of <i>Cronobacter</i> spp. in <sup>(D)(4)</sup> dryer (D) (4) from your sister swabs collected on 2/1/22 and your vector swabbing conducted during your</li> </ul>				
root cause an	anna - Construction			
C. On 1/31/22-2	2/4/22 and $2/8/22$ , we observed employed	oyees wearin	ng their captive shoes walking in h	allways,
SEE REVERSE OF THIS PAGE	EMPLOYEE(S)SIGNATURE Alexandra A Carrico, Investi John N Woodall, Investigator Elizabeth P Mayer, National Danny Tuntevski, Investigator Christi L Bellmore, Investig Brittany A Mckenzie, Investig Daniel B Arrecis, Investigator Rohn R Robertson, Inspector Liliya V Bubiy, Investigator Ana E Morales, Investigator Nicholas E Boyd, Investigator	Expert or gator lgator tor	Alexandra A Carr co signed By: Alexandra A Carr co- bate synet (D-19-2022 X 1: 933	BUED 8/2022
	Adam M True, Investigator			
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL C	DBSERVATIONS PAGE	8 of 9 PAGES

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	Site Director			
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CITY, STATE, ZIP CODE, COUN	TRY	TYPE ESTABLISHME	ENT INSPECTED	
Sturgis, MI 4	49091-9302	Infant F	'ormula Manufacturer	
the cafeteria.	, and exiting the restroom. Between 1/	/31/22-2/12	/22 employees, visitors, a	and contractors
	uired to spray their captive shoes with		사내 집 같은 것이 집에 있는 것이 같은 것이 같은 것이 있는 것이 없다. 것이 많이	A STATE OF A
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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL C	DBSERVATIONS	PAGE 9 of 9 PAGES

The observations of objectionable conditions and practices listed on the front of this form are reported:

- 1. Pursuant to Section 704(b) of the Federal Food, Drug and Cosmetic Act, or
- 2. To assist firms inspected in complying with the Acts and regulations enforced by the Food and Drug Administration.

Section 704(b) of the Federal Food, Drug, and Cosmetic Act (21 USC 374(b)) provides:

"Upon completion of any such inspection of a factory, warehouse, consulting laboratory, or other establishment, and prior to leaving the premises, the officer or employee making the inspection shall give to the owner, operator, or agent in charge a report in writing setting forth any conditions or practices observed by him which, in his judgment, indicate that any food, drug, device, or cosmetic in such establishment (1) consists in whole or in part of any filthy, putrid, or decomposed substance, or (2) has been prepared, packed, or held under insanitary conditions whereby it may have become contaminated with filth, or whereby it may have been rendered injurious to health. A copy of such report shall be sent promptly to the Secretary."