Rev 1: September 2018

FSN Ref: FSN2024-001 FSCA Ref: FSCA2024-001

Date: 08.01.2024

Urgent Field Safety Notice Device Commercial Name

For Attention of*: Distributors and end users of AsperGenius® Resistance Multiplex real-time PCR kit, PN-002, LPN2023063

Contact details of local representative (name, e-mail, telephone, address etc.)*

If you have any questions, contact your local our QA/RA Manager Leah Evers (e-mail: leah.evers@pathofinder.com/contact number: +31 (0)43 3030400

Rev 1: September 2018

FSN Ref: FSN2024-001 FSCA Ref: FSCA2024-001

Urgent Field Safety Notice (FSN) Device Commercial Name Risk addressed by FSN

1. Information on Affected Devices*

1 | 1. Device Type(s)*

The AsperGenius® real-time PCR assay aids in the diagnosis of invasive pulmonary aspergillosis (IPA) in 'at risk' patients, such as patients with hematological malignancies, Solid Organ Transplant (SOT) and allogenic transplant patients and patients with chronical lung diseases (eg. CF, COPD), when used in combination with other clinical and laboratory findings. Negative results do not necessarily indicate absence of an (fungal) infection. Negative results should not be used as the sole basis for diagnosis, therapy, or other treatment decisions. Positive results do not exclude co-infection with other pathogens. The pathogen(s) detected may not be the definite cause of disease. Other laboratory testing and assessment of clinical presentation must be included in the final diagnosis. The product is for use by laboratory professionals only.

1 2. Commercial name(s)

- AsperGenius® Resistance Multiplex real-time PCR kit
- 1 3. Unique Device Identifier(s) (UDI-DI)
- . 8719326750996
- 1 4. Primary clinical purpose of device(s)*
- AsperGenius® multiplex assays are designed for the detection of Aspergillus DNA. The assays are composed of ready to use optimized mixtures of target specific primers and probes for the detection of Aspergillus species and identification of the most prevalent mutations conferring resistance against multi-azole drugs. The AsperGenius® assays are based on real-time polymerase chain reaction (PCR) technology for the detection of A. fumigatus DNA and the identification of resistance/susceptibility patterns. For this technology PathoNostics is using fluorescent probes enabling detection and identification of single nucleotide polymorphisms (SNP's) using melting curve analysis. SNP's and a tandem repeat (TR) which are related to resistance can be identified with this technology resulting in discrimination between the wildtype and the mutant (resistant) strain. SNP's are targeted by the specific probes and differentiation of approximately 2 °C (TR34) or 4-5 °C (L98H, T289A, Y121F) in melting temperature can be accomplished.
- 1 5. Device Model/Catalogue/part number(s)*
- . Catalogue number PN-002
- 1 6. Software version
 - NA
- 1 7. Affected serial or lot number range
- . LPN2023063
- 1 8. Associated devices
- LightCycler® 480 II (Roche), Rotor-Gene® Q (QIAGEN), CFX96TM (Bio-rad), QuantStudio 5, ABI7500 (Thermo Fisher Scientific) or Mic qPCR (Bio Molecular Systems) instruments.

Rev 1: September 2018 FSN Ref: FSN2024-001 FSCA Ref: FSCA2024-001

	2 Reason for Field Safety Corrective Action (FSCA)*
2	Description of the product problem*
	Reported by MolPLUZ -LAG that the results do not show melting curves for TR34 (533-580
	channel) in the resistance PCR, whereas the melting curves in the other 3 channels and also the
	amplification plots in the species PCR are completely normal. When they performed the 2nd
	derivative analysis on the 533-580 channel of the resistance PCR, they saw the amplification plots.
	Without color compensation, they didn't observe melting curves for TR34 (533-580 channel), but
	this was due to spectral overlap with the 533-610 channel.
2	Hazard giving rise to the FSCA*
	Invasive pulmonary aspergillosis (IPA) is the most frequent invasive mold infection in
	immunocompromised patients and is mainly caused by Aspergillus fumigatus (A. fumigatus).
	Spores of the Aspergillus species can be inhaled and can cause an infection in the lower lungs
	during immune suppression. A false interpretation can lead to the wrong treatment but the
	chance is very low due to the multiplex mix that can detect different mutations. However, the kit
	needs to be discarded because it doesn't work fully complaint to our specifications.
2	3. Probability of problem arising
	The problem was initially identified by the end-user by testing of patient extracts, which contain
	genomic DNA. After performing a comparison run in-house with a previously released lot of
	Resistance mastermix and A. fumigatus culture extracts, the problem could be confirmed.
2	4. Predicted risk to patient/users
	Not likely since the affected target (TR34) is joined with another resistance marker in the same
	multiplex mix (L98H FAM) that can still confirm whether a patient sample would contain azole
	resistance or not. Therefore, the kit doesn't work properly but contains an internal system to
	prevent misinterpretation.
2	5. Further information to help characterise the problem
2	NA
	6. Background on Issue
•	After internal investigation by comparing this lot with a previous one, it was noticed that melting
	peaks were present in the previous lot but were weak in the current lot. The detection for the rest
	of the targets was fine. The reason is most likely that the ratio of primers for this target has not
	been pipetted correctly. A specific ratio of forward versus reverse is necessary to obtain a melting
_	peak.
2	7. Other information relevant to FSCA
•	NA

		3. Type of Action to mitigate the risk*			
3.	1.	Action To Be T	aken by the User*		
			☐ Quarantine Device	☐ Return Device	□ Destroy Device □
		☐ On-site device m	odification/inspection		
		☐ Follow patient management recommendations			
		$\hfill\Box$ Take note of amendment/reinforcement of Instructions For Use (IFU)			
		☐ Other	□ None		
		Provide further deta	ils of the action(s) identified.		

Rev 1: September 2018 FSN Ref: FSN2024-001 FSCA Ref: FSCA2024-001

3.	2.	By when should the action be completed?	As soon as possible,	immediately!
3.	3.	3. Particular considerations for: IVD		
	Is follow-up of patients or review of patients' previous results recommended?			
	Not likely since the affected target (TR34) is joined with another resistance marker in the same multiplex mix (L98H FAM) that can still confirm whether a patient sample would contain azole resistance or not. Therefore, the patient will still get the correct treatment			
		which excludes the risk to dea	·	Set the correct treatment
3.	4.	Is customer Reply Require	d? *	Yes
	(If yes, form attached specifying deadline for return)			
3.	5.	Action Being Taken by	the Manufacturer	
		☐ Software upgrade ☐ ☐ Other ☐	☐ On-site device modification/inspe☐ IFU or labelling change☐ None☐ Mode and cannot be sold anymore	
3	6.	By when should the action be completed?	Performed last Friday 05/01,	/2024.
3.	7. Is the FSN required to be communicated to the patient No /lay user?			
3	8.		ovided additional information su	
			-professional user information l	etter/sheet?
		NA NA		

Rev 1: September 2018

FSN Ref: FSN2024-001 FSCA Ref: FSCA2024-001

	4.	General Information*		
4.	1. FSN Type*	New		
4.	For updated FSN, reference number and date of previous FSN	NA		
4.	3. For Updated FSN, key new information as follows:			
	NA			
4.	4. Further advice or information already expected in follow-up	Choose an item. Yes		
	FSN? *	163		
_	5. If follow-up FSN expected, what is the further advice expected to relate to:			
4	The Removal of the resistance mastermix will be sufficient. The customer needs to discard			
	the whole kit. The customers will be provided with a replacement of the PN-002 kit. The			
	customer needs to confirm that the kit is removed and replacement is well received.			
4	Anticipated timescale for follow- up FSN	End of January if Final QC is passed		
4.	7. Manufacturer information			
	(For contact details of local representative			
	a. Company Name	PathoNostics BV.		
	b. Address	Randwycksingel 45, 6229EG, Maastricht, The Netherlands, Phone: +31 43 3030400		
	c. Website address	www.pathonostics.com		
4.		ority of your country has been informed about this		
	communication to customers. * IG	J is informed.		
4.	9. List of attachments/appendices:	NA		
4.	10. Name/Signature	Leah Evers, QA/RA manager PathoFinder/ PathoNostics		
		GOEDGEKEURD Door Leah Evers om 15:30,9-1-24		

Transmission of this Field Safety Notice This notice needs to be passed on all those who need to be aware within your organisation or to any organisation where the potentially affected devices have been transferred. (As appropriate) Please transfer this notice to other organisations on which this action has an impact. (As appropriate) Please maintain awareness on this notice and resulting action for an appropriate period to ensure effectiveness of the corrective action. Please report all device-related incidents to the manufacturer, distributor or local representative, and the national Competent Authority if appropriate, as this provides important feedback..*

Note: Fields indicated by * are considered necessary for all FSNs. Others are optional.