(Unofficial Translation)

NOTIFICATION OF THE MINISTRY OF PUBLIC HEALTH
RE: LIST OF PATHOGENS INTENDED TO BE CONTROLLED UNDER SECTION 18 (NO. 4)
B.E. 2563 (2020)

Where it is expedient to amend the list of pathogens intended to be controlled under Section 18 in order that production, import, export, sale, transit, and possession of pathogens and animal toxins is correct, appropriate, and efficient.

By the virtue of Section 5 Paragraph one and Section 6 (1) and Section 18 of the Pathogens and Animal Toxins Act B.E. 2558 (2015), the Minister of Public Health hereby issues the notification following the advice of the Pathogens and Animal Toxins Committee as follows:

Clause 1 The B-1-0605 pathogen code as in the attachment to the Notification of the Ministry of Public Health Re: List of Pathogens Intended to be Controlled under Section 18 B.E. 2561 (2018) shall be repealed and replaced with the following:

Codes	Pathogens	Group	Pathogenicity	Additional Information
			Bacteria	
B-1-0605	*Escherichia coli*	1	Human and animal	*Escherichia coli* of the following strains: 1) *Escherichia coli* K-12 and strains developed from *Escherichia coli* K-12 including 5K, 58, 58-161, AB284, AB311, AG1, C2925, C600, Cavalli Hfr, CopyCutte EPI400, DH1, DH5α, DH10B, DP50, EC100D, EMG2, EPI100-T1R, ER2925, ET12567, H1443, HB101, Hfr3000, Hfr 3000 X74, HMS 174, JC9387, JM83, JM101, JM109, KP7600, LE392, M15, MB408, MG1655, Novablue, P678, PA309, PA414, REG-12, S17-1, SCS-110, SM10, STBL2, STBL3, SURE, TB1, TG1, TOP10, W1485, W208, W3110, W945, WA704, WG1, WA704, W1485, W3110, XL1-Blue, XLOLR, Y10, YN2980 2) Strains not developed from *Escherichia coli* K-12 but with low risk and safe use history including B, B-3, B/R, BL21, BL23, C, C41, C43, FDA strain Seattle 1946, K5808, Mach1, Nissle 1917, REG-811, TOPP, W, 25922 3) Species with safe use history with a certificate from the National Center for Genetic Engineering and Biotechnology or that is certified by an internationally

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Codes	Pathogens	Group	Pathogenicity	Additional Information
				accepted organization as well as the following features: a. Having limitation to survival in the environment b. Not releasing exotoxin c. Not causing pathology d. No genetic material has been added to cause antimicrobial resistance.

Clause 2 The B-3-1330 pathogen code as in the attachment to the Notification of the Ministry of Public Health Re: List of Pathogens Intended to be Controlled under Section 18 B.E. 2561 (2018) shall be repealed and replaced by the following:

Codes	Pathogens	Group	Pathogenicity	Additional Information
Bacteria				
B-3-1330	*Rickettsia tsutsugamushi*	3*	Human and animal	Other names: *Orientia tsutsugamushi* *Rickettsia akamushi* *Rickettsia orientalis* *Theileria tsutsugamushi*

Clause 3 The following shall be added as the B-3-1593 and B-3-1594 pathogen codes after the B-1-1592 pathogen code as in the attachment to the Notification of the Ministry of Public Health Re: List of Pathogens Intended to be Controlled under Section 18 B.E. 2561 (2018).

Codes	Pathogens	Group	Pathogenicity	Additional Information
Bacteria				
B-3-1593	*Orientia chiloensis*	3*	Human and animal	
B-3-1594	*Orientia chuto*	3*	Human and animal	

Clause 4 The conditions after the list of bacteria as in the attachment to the Notification of the Ministry of Public Health Re: List of Pathogens Intended to be Controlled under Section 18 B.E. 2561 (2018) shall be repealed and replaced with the following:

"Conditions

3* means Group 3 Bacteria that can mutatis mutandis be operated in Operational Site Level 2 Enhanced (biosafety level 2 enhanced: BSL-2 enhanced) as specified in the notifications issued under Section 6 (4). Culture for further study can be operated in Operational Site Level 3 (BSL-3), except culture of *Burkholderia* in liquid culture medium of no more than five ml of volume per breed per time or solid culture medium of no more than three culture plates or tubes per breed per time which shall be operated in Operational Site Level 2 Enhanced.

Clause 5 The conditions after the list of fungi as in the attachment to the Notification of the Ministry of Public Health Re: List of Pathogens Intended to be Controlled under Section 18 B.E. 2561 (2018) shall be repealed and replaced with the following:

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"Conditions

3* means Group 3 Fungi that can mutatis mutandis be operated in Operational Site Level 2 Enhanced (biosafety level 2 enhanced: BSL-2 enhanced) as specified in the notifications issued under Section 6 (4). Culture for further study can be operated in Operational Site Level 3 (BSL-3)."

Clause 6 The conditions after the list of biological substances as in the attachment to the Notification of the Ministry of Public Health Re: List of Pathogens Intended to be Controlled under Section 18 B.E. 2561 (2018) shall be repealed and replaced with the following:

"Conditions

Group 3 and 3* Biological Substances can be operated in Operational Site Level 2. Biological substances that are not prion (T pathogen codes) shall mutatis mutandis use fume hoods or biological safety cabinets which are capable of preventing harm from those biological substances.

Clause 7 This notification shall come into force on the day following the date of its publication in the Government Gazette.

Notified on the 22nd day of October B.E. 2563 (2020)
Anutin Charnvirakul
Minister of Public Health

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