

**Research Group for  
Biological Arms Control**



# **2015 Reader on Publicly Available CBMs**

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## About this Reader

The exchange of information under the Biological Weapons Convention (BWC) in the form of the Confidence Building Measures (CBMs) remains the only permanent transparency building tool of the BWC.

This Reader, as its forerunners, presents information on CBM-related developments and the data provided in the openly available CBMs of the current year. The CBM Reader aims to underline the importance of participating in the CBM data exchange as the only established permanent transparency tool for the BWC and to highlight the particular efforts of an increasing number of states to foster transparency by making their CBM submissions available to the public. The CBM Reader series is prepared as part of our efforts to increase transparency around bioweapon relevant activities globally. Such transparency is indispensable for building confidence in compliance with the BWC and must extend to all stakeholders including civil society. For more information please visit [www.biological-arms-control.org/projects\\_improvingthecbms.html](http://www.biological-arms-control.org/projects_improvingthecbms.html).

## Development of the CBM regime in 2015

On the 7th Review Conference in 2011 BWC States Parties decided to address CBMs in the 2012 and 2013 the Meetings of Experts and the Meetings of States Parties. A further development such as an update of the CBM forms was not agreed on (the current format basically dates back to the year 1992). Figures shown in this reader illustrate also the need for a debate how a better participation in the mechanism could be reached – this point was also made in the MSP report of 2013. The debates in the precedent ISP meetings show that these issues still have some potential for development. Decisions can, however, not be taken before the 8th Review Conference in 2016.

### **Facts about the BWC and its CBMs**

**BWC States Parties: 173**

**New BWC States Parties in 2015: 2**

**CBMs submitted in 2015: 71 as of 1 December 2015**

**First-time CBM submissions in 2015: 0**

**Number of states having participated in the CBM data exchange in 25 years: 116**

## CBM-specific publications in 2015

BWC/MSP/2014/INF.3 - Confidence and compliance with the Biological and Toxin Weapons Convention: Workshop Report. Submitted by the United Kingdom of Great Britain and Northern Ireland.

BWC/MSP/2015/MX/WP.16 - Providing reassurance on Biological Weapons Convention (BWC) Implementation. Submitted by Australia, Brunei Darussalam, Chile, Costa Rica, Ecuador, Ghana, Japan, Malaysia, Norway, Republic of Korea, Thailand.

“Guide to Participating in the Confidence-Building Measures of the Biological Weapons Convention” prepared by the United Nations Office for Disarmament Affairs with the support of the European Union 2015 (Revised Edition).

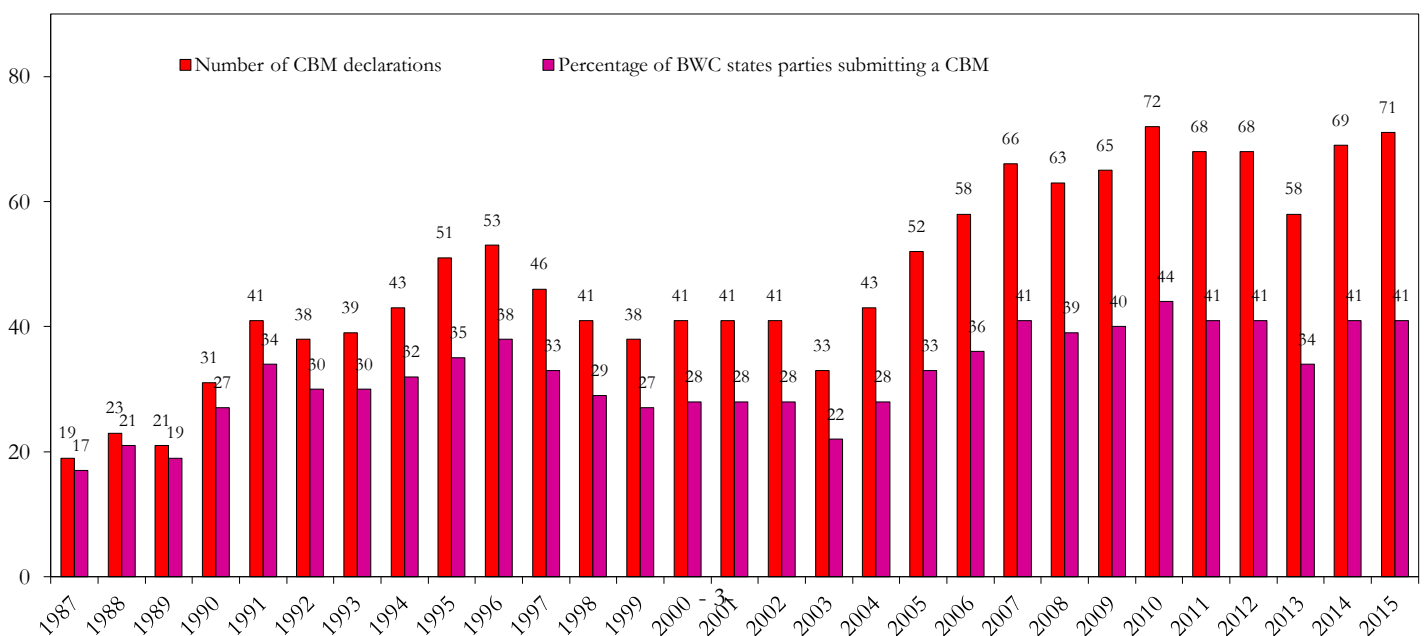
Filippa Lentzos: 3D BIO: Declare, Document and Demonstrate; EU Non-Proliferation Paper No. 45, April 2015.

## Participation in the CBM regime in 2015

In 2015, participation in the CBM data exchange increased in comparison to previous years. As of 15 April 2015, 70 BWC states parties had submitted their CBM. The overall status of the CBMs remains weak. Since the beginning of the data exchange in 1987, the annual level of participation was never higher than 44 per cent of the BWC states parties. In total, 116 countries submitted a CBM at least once. This means that 57 BWC states parties have yet to submit their first CBM declaration. Continuity in states’ participation also remains weak: 25 countries have submitted a CBM annually for the last 10 years and 32 countries have submitted a CBM only once or twice since 1987.

**First-time submissions in 2015:** None

**Figure 1. CBM submissions per year between 1987 and 2015** (Numbers in this figure differ from numbers provided by the Implementation Support Unit. This is due to differences in counting states that were formerly part of other states, such as the former republics of the Soviet Union. This figure provides the actual number of CBM declarations submitted in the respective year.)

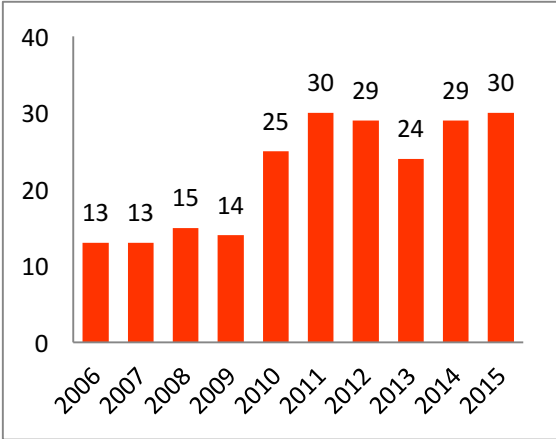


**CBM submissions in 2015** (States in bold made their CBM available to the public):

- |                     |                    |                       |                         |                        |
|---------------------|--------------------|-----------------------|-------------------------|------------------------|
| 1. Albania          | 16. Colombia       | 30. India             | 45. Malta               | 59. <b>Serbia</b>      |
| 2. Algeria          | 17. Croatia        | 31. Indonesia         | 46. Mauritius           | 60. Singapore          |
| 3. Argentina        | 18. Cuba           | 32. Iraq              | 47. <b>Mexico</b>       | 61. Slovakia           |
| 4. Armenia          | 19. Cyprus         | 33. <b>Ireland</b>    | 48. Morocco             | 62. <b>Slovenia</b>    |
| 5. <b>Australia</b> | 20. <b>Czech</b>   | 34. Italy             | 49. <b>Netherlands</b>  | 63. South Africa       |
| 6. <b>Austria</b>   | <b>Republic</b>    | 35. <b>Japan</b>      | 50. <b>New</b>          | 64. Spain              |
| 7. Azerbaijan       | 21. <b>Denmark</b> | 36. Jordan            | <b>Zealand</b>          | 65. <b>Sweden</b>      |
| 8. Belarus          | 22. Ecuador        | 37. Kazakhstan        | 51. <b>Norway</b>       | 66. <b>Switzerland</b> |
| 9. <b>Belgium</b>   | 23. Estonia        | 38. Kenya             | 52. Poland              | 67. <b>Turkey</b>      |
| 10. Bhutan          | 24. <b>Finland</b> | 39. Kyrgyzstan        | 53. <b>Portugal</b>     | 68. <b>Ukraine</b>     |
| 11. Brazil          | 25. France         | 40. <b>Latvia</b>     | 54. Qatar               | 69. <b>UK</b>          |
| 12. <b>Bulgaria</b> | 26. Georgia        | 41. Liechtenstein     | 55. Rep. Korea          | 70. <b>USA</b>         |
| 13. <b>Canada</b>   | 27. <b>Germany</b> | 42. <b>Lithuania</b>  | 56. <b>Rep. Moldova</b> | 71. Uzbekitstan        |
| 14. Chile           | 28. Greece         | 43. <b>Luxembourg</b> | 57. <b>Romania</b>      |                        |
| 15. China           | 29. <b>Hungary</b> | 44. Malaysia          | 58. Russia              |                        |

**Publicly available CBMs in 2015**

As of 15 November 2015, 30 countries have made their 2015 CBM declarations publicly available, as many as in 2011, the year of the alltime-high. 29 of the 30 publicly available CBMs can be found on the website of the Implementation Support Unit (ISU) ([www.unog.ch/bwc/cbms](http://www.unog.ch/bwc/cbms)): Australia, Austria, Belgium, Bulgaria, Canada, Czech Republic, Denmark, Finland, Germany, Japan, Latvia, Lithuania, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Portugal, Romania, Republic of Moldova, Romania, Serbia, Slovenia, Sweden, Switzerland, Turkey, Ukraine, United Kingdom and the USA. One CBM was provided directly to the Hamburg Research Group: Hungary.



Belgium and the USA provided two separate versions of their CBMs, one for the restricted part of the ISU website and one for the public.

**Table 1. Countries that made their CBM declarations publicly available, 2006-2015**

Country	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Albania					X					
Australia	x	x	x	x	X	x	x	x	x	x
Austria				x	X	x	x	x		x
Bangladesh			x							
Belgium						x	x	x	x	x
Brazil					X					
Bulgaria		x	x		X	x	x	x	x	x
Canada						x	x	x	x	x
Croatia	x								x	
Cyprus						x	x			
Czech Republic	x			x	X	x	x	x	x	x
Denmark		x	x		X	x	x		x	x
Ecuador						x				
Estonia					X	x		x		
Finland	x	x	x	x	X	x	x	x	x	x
Georgia				x	X	x				
Germany	x	x	x	x	X	x	x	x	x	x
Greece						x	x	x		
Hungary									x	x
Japan							x	x	x	x
Ireland	x	x	x	x	X	x				x
Latvia	x			x		x	x	x	x	x
Liechtenstein		x	x	x	X	x		x	x	
Lithuania	x	x	x	x	X	x	x	x	x	x
Luxembourg									x	x
Madagascar							x			
Malaysia	x					x				
Mexico										x
Netherlands								x	x	x
New Zealand	x	x	x		X	x	x	x	x	x
Norway			x		X	x	x	x		x
Poland					X					
Portugal					X	x	x	x	x	x
Qatar							x	x		
Republic of Moldova							x	x	x	x
Romania			x	x	X	x	x	x	x	x
Serbia							x		x	x
Slovakia									x	
Slovenia									x	x
Senegal					X					
Slovakia		x								
Sweden	x	x	x	x	X	x	x	x	x	x
Switzerland	x	x	x	x	X	x	x	x	x	x
Thailand					X	x	x			
Turkey						x	x		x	x
United Kingdom	x	x	x	x	X	x	x	x	x	x
Ukraine						x	x			x
USA					X	x	x	x	x	x
<b>Total</b>	<b>13</b>	<b>13</b>	<b>15</b>	<b>14</b>	<b>25</b>	<b>30</b>	<b>29</b>	<b>24</b>	<b>29</b>	<b>30</b>

As shown in Table 1 above 48 countries have made their CBM publicly available at least once since 2006. Many states make their CBMs publicly available in an erratic way. No explanation readily offers itself for why many states make their CBMs publicly available in one year but not in another.

## Summary of data in publicly available 2015 CBM declarations

A summary of the data declared in the 30 publicly available CBMs of 2015 is provided in the table below. More detailed information can be found in the Annex to this Reader. 32 maximum biological containment facilities were declared in publicly available CBMs in 2015, seven of which were partially or wholly funded by ministries of defence. 21 of the 30 countries making their 2015 CBM publicly available declared having a biodefence programme; they provided information on 64 biodefence facilities. And lastly, thirteen unusual disease outbreaks and 83 vaccine production facilities were declared in the 30 publicly available CBMs of 2015.

**Table 2. Summary of data in publicly available CBM declarations, 2015**

<b>Form A, part 1:</b>	Number of maximum biological containment facilities (BSL-4 or equivalent) declared.
<b>Form A, part 2 (i):</b>	Does the state party declare having a biodefence programme?
<b>Form A, part 2 (iii):</b>	Number of biodefence facilities declared.
<b>Form B (ii):</b>	Number of unusual disease outbreaks declared.
<b>Form F:</b>	Does the state party declare having a past offensive and/or defensive programme?
<b>Form G:</b>	Number of vaccine production facilities declared.
<b>ND:</b>	“Nothing to declare” indicated in Form 0.
<b>NN:</b>	“Nothing new to declare” indicated in Form 0.

Country	Form A, part 1	Form A, part 2 (i)	Form A, part 2 (iii)	Form B (ii)	Form F (off/def)	Form G
Australia	4	yes	1	0	no/no	3
Austria	0	yes	1	ND	no/no	0
Belgium	0	yes	4	ND	ND	1
Bulgaria	0	yes	1	ND	no/no	1
Canada	2	yes	2	5	yes/yes	13
Czech Republic	1	no	2	ND	NN	5
Denmark	0	yes	1	ND	no/yes	2
Finland	0	yes	1	ND	ND	ND
Germany	3 <sup>1</sup>	yes	5	1	NN	5
Hungary	1	yes	1	n.a.	no / no	1
Ireland	0	no	ND	ND	ND	4
Japan	2	yes	1	ND	NN	7
Latvia	0	yes	1	ND	NN	ND
Lithuania	0	no	ND	ND	no/no	NN
Luxembourg	0	no	0	NN	no / no	ND
Mexico	0	ND	ND	ND	ND	2
Netherlands	0	yes	1	0	no/yes	8
New Zealand	0	no	ND	NN	no/no	ND
Norway	0	yes	1	ND	no/no	3
Portugal	0	yes	1	ND	no/yes	1
Republic of Moldova	0	yes	1	1	NN	ND
Romania	0	yes	ND	ND	ND	1
Serbia	0	no	ND	ND	no/no	1
Slovenia	0	no	ND	ND	ND	0
Sweden	1	yes	2	ND	no/no	1
Switzerland	2	yes	14	3	no/yes	1
Turkey	0	yes	2	ND	no/no	8
Ukraine	0	ND	ND	ND	ND	8
United Kingdom	8 <sup>3</sup>	yes	1	2	yes/yes	3
USA	8	yes	24	7	NN	10

<sup>1</sup> Includes one maximum containment facility not suitable for work with human pathogens.

<sup>2</sup> The BSL-4 unit is approved for diagnostic purposes only.

<sup>3</sup> Includes three animal pathogen maximum containment facilities designated SAPO (Specified Animal Pathogens Order).

## **Geographical distribution of CBM returns in 2015**

Of the 71 submissions in 2015, 23 come from members of the European Union, another 10 from non-EU members in Europe. Eastbound also the Caucasus region is well represented, so that almost 60 per cent of the CBM submissions decent from Europe and countries in its direct Asian neighbourhood. Seven Latin American States have submitted CBMs, and another nine from South, East, and Southeast Asia. Five CBMs were submitted by African States.

17 EU members and 6 European states not member to the EU have made their CBMs public. They are accompanied by the three Northern American States, Australia, New Zealand and Japan. In previous years also States from other geographical regions had made their CBMs public.

## ANNEX

The following table summarizes the data declared in **CBM Form A, part 1**, of the publicly available CBM submissions from 2015 and compares them with the information in publicly available CBMs from 2006 to 2014. The table provides the names and locations of facilities declared in CBM Form A, part 1, their containment levels, the year(s) they were declared, and whether the facilities were wholly or partly funded by ministries of defence (MoD). Grey cells indicate that there was no CBM submission or that it was not made publicly available in the respective year. “ND” indicates that the state ticked the “Nothing to declare” box in Form 0. “NN” indicates that the state ticked the “Nothing new to declare” box in Form 0. “-” indicates that no data were provided.

Country	Name and location of facilities declared in CBM Form A, part 1	Cont. level	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	MoD funded in 2015?
Australia	1. Australian Animal Health Laboratory (Geelong)	BL4	x	x	x	x	x	x	x	x	x	x	no
	2. National High Security Quarantine Laboratory (North Melbourne)	BL4	x	x	x	x	x	x	x	x	x	x	no
	3. Queensland Health and Forensic Scientific Services (Cooper Plains)	BL4	x	x	x	x	x	x	x	x	x	x	no
	4. Emerging Infectious Disease and Biohazard Response Unit (Westmead)	BL4	-	-	x	x	x	x	x	x	x	x	no
Austria	1. Federal Ministry of Defence/Armament and Defence Technology Agency Div NBC & Environmental Protection Technology (Vienna)	BL3				x	x	x	x	x	x	x	wholly
Belgium	1. Federaal orientatielab (FOL)	BL3						ND	ND	ND	ND	x	n.a.
Bulgaria	1. National Center of Infectious and Parasitic Diseases (Sofia)	BL3		x	x		x	x	x	x	x	x	no
	2. National Diagnostic and Research Veterinary Medical Institute (Sofia)	BL3		-	-		x	x	-	-	-	-	n.a.
Canada	1. National Microbiology Laboratory (Winnipeg)	BL4						x	x	x	-	x	no
	2. National Centre for Foreign Animal Disease (Winnipeg)	BL4						x	x	x	-	x	no
Croatia	<i>Nothing new to declare</i>	n.a.									ND		n.a.
Cyprus	<i>Nothing new to declare</i>	BL2						ND	n.a.				n.a.
Czech Republic	1. State Veterinary Institute (Jihlava)	BL3	-			-	x	x	-	NN	-	NN	n.a.
	2. State Veterinary Institute (Lysolaje)	BL3	-			-	-	x	-	NN	-	NN	n.a.
	3. Tekro, spol.s.r.o. (Uničov)	BL3	-			-	x	x	-	NN	-	NN	n.a.
	4. Collection of Animal Pathogenic Microorganisms (Brno)	BL3	x			x	-	-	-	NN	-	NN	n.a.
	5. Institute of Molecular Pathology (Hradec Králové)	BL3	x			x	-	x	-	NN	-	NN	n.a.
	6. Central Military Health Institute, Department Těchonín (Těchonín)	BL4	x			x	-	x	x	NN	x	NN	n.a.
	7. Central Military Health Institute, Department Prague (Prague)	BL2	-			-	-	x	-	NN	-	NN	n.a.



Country	Name and location of facilities declared in CBM Form A, part 1	Cont. level	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	MoD funded in 2015?	
	8. Laboratory for Biological Monitoring and Protection (Milin)	BL4	x			x	-	x	x	NN	x	NN	n.a.	
	9. Laboratory of Molecular Biology (Hradec Králové)	BL2	x			x	-	-	-	NN	-	NN	n.a.	
	10. Division of Infectious Diseases, Department of Infectious Diseases and Epizootology, Faculty of Veterinary Medicine (Brno)	BL3	x			x	-	x	-	NN	-	NN	n.a.	
	11. National Institute of Public Health; Centre of Epidemiology and Microbiology (Šrobárova)	BL3	-			-	-	x	-	NN	-	NN	n.a.	
	12. Bioveta, a.s. (Ivanovice na Hané)	BL3	-			-	-	x	-	NN	-	NN	n.a.	
<b>Denmark</b>	1. Centre for Biosecurity and Biopreparedness (Copenhagen)	BL2		x	x		x	-	ND		x	ND	n.a.	
	2. Anonymous larger university in Denmark ( <i>no location provided</i> )	BL3		-	-		-	x	ND		-	ND	n.a.	
	3. TB Vaccine Research (Copenhagen)	BL3		-	-		-	x	ND		-	ND	n.a.	
	4. QC Bio (Copenhagen)	BL3		-	-		-	x	ND		-	ND	n.a.	
	5. International Reference Laboratory of Mycobacteriology (Copenhagen)	BL3		-	-		-	x	ND		-	ND	n.a.	
<b>Ecuador</b>	<i>Nothing to declare</i>	n.a.						ND					n.a.	
<b>Estonia</b>	<i>Nothing to declare</i>	n.a.					ND	ND					n.a.	
<b>Finland</b>	1. Centre for Biothreat Preparedness (Helsinki)	BL3	x	x	x	x	x	x	x	x	x	x	partly	
	2. National Institute for Health and Welfare, Bacteriological and Virological Lab (Helsinki, Turku)	BL3	x	x	x	x	x	x	x	x	x	x	no	
	3. Yersinia Research Laboratory (Helsinki, Turku)	BL2	x	x	x	x	x	x	x	x	x	x	partly	
	4. Department of Virology, University of Helsinki (Helsinki)	BL3	x	x	x	x	x	x	x	x	x	x	partly	
	5. Institute of Biotechnology (Helsinki)	BL3	-	-	-	-	-	-	-	x	-	-	n.a.	
	6. Finnish Food Safety Authority (Helsinki)	BL3	-	x	x	x	x	x	x	x	x	x	no	
	7. Finnish Defence Research Agency (FDRA) (Lakiala)	BL3	-	x	x	x	x	x	x	x	x	x	wholly	
	8. Department of Food and Environmental Sciences (Helsinki)	BL3	-	-	-	-	-	-	-	-	-	x	x	no
	9. Clostridium botulinum laboratory (Helsinki)	BL2	-	-	-	-	-	-	-	-	-	x	x	no
<b>Georgia</b>	1. National Center for Disease Control and Public Health (Tbilisi)	BL2				x	x	x					no	
	2. Laboratory of Ministry of Agriculture of Georgia (Tbilisi)	BL2				-	x	x					no	
<b>Germany</b>	1. Bernhard-Nocht-Institut für Tropenmedizin (Hamburg)	BL4	x	x	x	x	x	x	x	x	x	x	no	

Country	Name and location of facilities declared in CBM Form A, part 1	Cont. level	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	MoD funded in 2015?
	2. Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health (Insel Riems)	BL4 <sup>1</sup>	x	x	x	x	x	x	x	x	x	x	no
	3. Institut für Virologie der Philipps Universität Marburg (Marburg)	BL4	x	x	x	x	x	x	x	x	x	x	partly
Greece	1. University of Crete School of Medicine(Heraklion)	BL3						x	NN	NN			-
	2. Kapodistrian University of Athens School of Medicine (Athens)	BL3						x	NN	NN			-
	3. Aristotelian University of Thessaloniki (Thessaloniki)	BL3						x	NN	NN			-
	4. Infectious Diseases Hospital(Thessaloniki)	BL3						x	NN	NN			-
	5. Hellenic Pasteur Institute(Athens)	BL3						x	NN	NN			-
	6. Athens School of Public Health (Athens)	BL3						x	NN	NN			-
Hungary	1. National Center for Epidemiology (Budapest)	BL4									x	x	no
Ireland	1. National Virus Reference Laboratory, University College Dublin (Dublin)	BL3+	x	x	x	x	x	x					n.a.
	2. Public Health Laboratory (Dublin)	BL3	x	x	x	x	x	x					n.a.
Japan	1. Murayama Annex of National Institute of Infectious Diseases (Tokyo)	BL4							x	x	x	x	no
	2. Riken Tsukuba Institute (Ibaraki)	BL4							-	x	x	x	no
Latvia	1. National Microbiology Reference Laboratory (Riga)	BL3						x	x	x	x	x	no
	2. Centre for Disease Prevention and Control of Latvia (Riga)	-						-	x	-	-	-	n.a.
Liechtenstein	<i>Nothing new to declare</i>	-		NN	NN	NN	NN	NN		NN	NN	NN	n.a.
Lithuania	1. Microbiological laboratory of Vilnius Public Health Centre (Vilnius)	BL3	x	x	x	x	x	-	-	-	-	-	n.a.
	2. Laboratory of Centre for Communicable Diseases (Vilnius)	BL2	x	x	x	x	x	-	-	-	-	-	n.a.
	3. National Food and Veterinary Risk Assessment Institute (Vilnius)	BL3	x	x	x	x	x	x	x	x	x	x	no
	4. National Public Health Surveillance Laboratory (Vilnius)	BL3	-	-	-	-	-	x	x	x	x	x	no
Luxembourg	1. Laboratoire national de santé (Dudelange)	n.a.									x	x	no
Madagascar	-	-							-				n.a.
Malaysia	1. Biotechnology Research Institute, Universiti Malaysia Sabah (Kota Kinabalu)	BL3	-					x					n.a.

<sup>1</sup>Maximum containment facility not suitable for work with human pathogens.

Country	Name and location of facilities declared in CBM Form A, part 1	Cont. level	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	MoD funded in 2015?
	2. Medical Laboratories for Medical Microbiology, Parasitology and Virology, University of Putra Malaysia (Serdang)	BL2	-					x					n.a.
	3. Institute of Systems Biology, Universiti Kebangsaan (Bangi)	BL2	-					x					n.a.
	4. Veterinary Research Institute (Ipoh)	BL3	-					x					n.a.
	5. Science and Technology Research Institute for Defence (Kajang)	“normal”	x					-					n.a.
Mexico	1. Universidad de Monterey (UDEM), División de Ciencias de la Salud, Departameno de Ciencias Básicas (Nuevo León)	BL3										x	no
	2. Instituto Nacional de Ciencias Médicas y Nutrición “Salvador Zubirán”, Laboratorio de microbiología clínica (Tlalpan)	BL3										x	no
	3.												
Netherlands	1. TNO Department of CBRN Protection	BL3								x	-	-	n.a.
	2. National Institute for Public Health and the Environment (Bilthoven)	BL3								x	x	x	no
New Zealand	National Centre for Biosecurity and Infectious Disease(Upper Hutt)	BL3+	x	x	x		x	x	x	-	ND	ND	n.a.
Norway	Institute of Microbiology, Armed Forces Medical Services (Oslo)	BL3			x		x	x	x	x			n.a.
Portugal	1. Laboratório de Bromatologia e Defesa Biológica (Lisbon)	BL3					x	x	x	-	-	-	n.a.
	2. Unidade de reposta a Emergências e Biopreparação (Lisbon)	BL3					x	x	-	-	-	-	n.a.
	3. Departamento de Docnças Infecciosas (Lisbon)	BL3					-	-	x	x	x	x	no
	4. Laboratório Nacional De Investigação Veterinaria (Lisbon)	BL3					-	-	x	x	-	-	n.a.
	5. Unidade de reposta a Emergências e Biopreparação (Braga)	BL3					-	-	-	x	-	-	n.a.
	6. Instituto Nacional de Investigação Agrária e Veterinária (Lisbon)	BL3					-	-	-	-	x	x	no
	7. University of Minho (Braga)	BL3					-	-	-	-	x	x	no
	8. Universidade de Lisboa (Lisbon)	BL3					-	-	-	-	x	x	no
Quatar	<i>Nothing new to declare</i>	-							ND				n.a.
Republic of Moldova	1. National Center for Public Health (Chisinau)	BL3							x	NN	NN	NN	n.a.
	2. Republican Center for Veterinary Diagnostics (Chisinau)	BL2							x	NN	NN	NN	n.a.
Romania	1. Laboratory of Microbiology and Epidemiology, Military Medical Research Center (Bucharest)	BL2			NN	x	NN	x	x	x	-	-	wholly
	2. Pasteur Institute (Bucharest)	BL2			NN	-	NN	-	-	-	x	x	no

Country	Name and location of facilities declared in CBM Form A, part 1	Cont. level	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	MoD funded in 2015?
	3. Institute for Hygiene and Veterinary Public Health (Bucharest)	BL3			NN	-	NN	-	-	-	x	x	no
<b>Serbia</b>	<i>Nothing to declare</i>	n.a.							ND		ND	ND	n.a.
<b>Slovakia</b>	<i>Nothing to declare</i>										ND	ND	n.a.
<b>Slovenia</b>	<i>Nothing to declare</i>										ND	ND	n.a.
<b>Sweden</b>	1. Swedish Defence Research Agency Division of NBC Defence (Umeå)	BL3	x	x	x	x	x	x	-	-	-	-	n.a.
	2. Säkerhetslaboratorium, Swedish Institute of Infectious Disease Control (Solna)	BL4	x	x	x	x	x	x	x	x	x	x	no
	3. National Veterinary Institute (Uppsala)	BL3	x	x	x	x	x	x	-	-	-	-	n.a.
<b>Switzerland</b>	1. Labor Spiez (Spiez)	BL3	NN	NN	NN	NN	x	x	x	x	x	x	partly
	2. Institute of Virology and Immunoprophylaxis (Mittelhäusern)	BL3	NN	NN	NN	NN	x	x	x	x	x	x	no
	3. National Reference Center for Emerging Viral Infections (Geneva)	BL4	NN	NN	NN	NN	x	x	x	x	x	x	no
	4. Institut für Medizinische Virologie (Zürich)	BL4	NN	NN	NN	NN	-	-	-	-	x	x	no
<b>Thailand</b>	<i>Nothing new to declare</i>	-					NN	NN	NN				-
<b>Turkey</b>	1. Ankara University Biotechnology Institute (Ankara)	BL2						x	x		-	-	n.a.
	2. Refik Saydam National Public Health Agency (Ankara)	BL3						x	-		-	-	n.a.
	3. Bornova Veterinary Control and Research Institute (Ankara)	BL3						x	-		-	-	n.a.
	4. Diagnosis of Poultry Disease Laboratory (Ankara)	BL3						x	-		-	-	n.a.
	5. Biosafety Level-3 Laboratory Institute	BL3						-	x		-	-	n.a.
<b>Ukraine</b>	1. Governmental Scientific Oversight Institute for Biotechnology and Microorganism Culture Collection (Kiev)	<sup>2</sup>						x	x				n.a.
	2. Mechnikov Institute for Microbiology and Immunology (Charkov)	<sup>3</sup>						x	x				n.a.
	3. Gromashevsky Institute for Epidemiology and Infectious Diseases (Kiev)	<sup>4</sup>						x	x				n.a.
	4. Mechnikov Scientific Research Anti-Plague Institute (Odessa)	BL3						x	x				n.a.
	5. Central Sanitary Epidemiological Station (Kiev)	BL3						x	x				n.a.

<sup>2</sup>Ukraine declared four units with an overall floorspace of 780 sqm, without indicating the containment level.

<sup>3</sup>BL4 does not exist; highest level of containment is not indicated (until 2011); BL3 and BL4 do not exist (2012).

<sup>4</sup>BL4 does not exist; highest level of containment is not indicated.

Country	Name and location of facilities declared in CBM Form A, part 1	Cont. level	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	MoD funded in 2015?	
	6. Lvov Scientific Research Institute for Epidemiology and Hygiene (Lvov)	BL3 <sup>5</sup>						x	x				n.a.	
	7. Anti-Plague Station (Simferopol)	BL3						x	x				n.a.	
	8. Institute for Experimental and Clinical Veterinary Medicine (Charkov)	BL2						-	x				n.a.	
	9. Institute for Veterinary Medicine (Kiev)	- <sup>6</sup>						-	x				n.a.	
United Kingdom	1. Defence Science and Technology Laboratory (Porton Down, Salisbury)	BL4	x	x	x	x	x	x	x	x	x	x	wholly	
	2. Public Health England (Colindale, London)	BL4	x	x	x	x	x	x	x	x	x	x	no	
	3. Public Health England (Porton)	BL4	x	x	x	x	x	x	x	-	x	x	no	
	4. National Institute for Biological Standards and Control (Potters Bar)	BL4	x	x	x	x	x	x	x	x	x	x	no	
	5. National Institute for Medical Research (London)	BL4	x	x	x	x	x	x	x	x	x	x	no	
	6. The Pirbright Institute (Pirbright)	BL4	-	-	-	-	-	-	-	-	x	x	x	no
	7. Veterinary Laboratories Agency (Addlestone)	SAPO4 <sup>7</sup>	x	x	x	x	x	x	x	x	x	x	x	no
	8. Institute for Animal Health, Pirbright Laboratory (Woking)	SAPO4 <sup>8</sup>	x	x	x	x	x	x	x	x	-	-	-	n.a.
	9. Merial Animal Health (Pirbright)	SAPO4 <sup>8</sup>	-	-	x	x	x	x	x	x	x	x	x	no
	10. Schering-Plough Animal Health (Uxbridge)	SAPO4 <sup>8</sup>	-	-	x	-	-	-	-	-	-	-	-	n.a.
USA	1. Viral Immunology Center, Georgia State University (Atlanta, GA)	BL4					x	x	x	x	x	x	no	
	2. The Betty Slick and Lewis J. Moorman, Jr. Laboratory Complex (San Antonio, TX)	BL4					x	x	x	x	x	x	partly	
	3. Galveston National Laboratory (Galveston, TX)	BL4					x	x	x	x	x	x	partly	
	4. Plum Island Animal Disease Center (Greenport, TX)	BL3					x	x	-	-	-	-	n.a.	
	5. U.S. Army Medical Research Institute of Infectious Diseases (Fort Detrick, MD)	BL4					x	x	x	x	x	x	wholly	
	6. National Biodefense Analysis and Countermeasures Center (Fort Detrick, MD)	BL4					-	-	x	x	x	x	no	

<sup>5</sup>Until 2011, Ukraine declared three units with an overall floorspace of 1,273 sqm, without indicating the containment level.

<sup>6</sup>Ukraine declared four units with an overall floorspace of 780 sqm, without indicating the containment level.

<sup>7</sup>Specified Animal Pathogens Order.

Country	Name and location of facilities declared in CBM Form A, part 1	Cont. level	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	MoD funded in 2015?
	7. National Institutes of Health (NIH) - NIAID-Rocky Mountain Laboratories (Hamilton, MT)	BL4					-	-	x	x	x	x	no
	8. Coordinating Center for Infectious Diseases (Atlanta, GA)	BL4					x	-	-	-	-	-	n.a.
	9. CDC, Office of Infectious Diseases (Atlanta, GA)	BL4					-	-	x	x	x	x	no

The following table summarizes the data declared in **CBM Form A, part 2 (ii) and (iii)** of the publicly available CBM submissions from 2015 and compares them with the information in publicly available CBMs from 2006 to 2014. The table indicates the overall funding for the biodefence programme as declared in CBM Form A, part 2 (ii), and lists the names and locations of biodefence facilities declared in CBM Form A, part 2 (iii), specifying the year(s) they were declared. Grey cells indicate that there was no CBM submission or that it was not made publicly available in the respective year. “ND” indicates that the state ticked the “Nothing to declare” box in Form 0. “NN” indicates that the state ticked the “Nothing new to declare” box in Form 0. “-“ indicates that no data were provided.

Country	Total funding in million EUR <sup>8</sup>										Name and location of biodefence facilities declared in CBM Form A, Part 2 (iii)										
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	
<b>Australia</b>	1.2	1.5	1.6	1.9	1.7	1.7	2.0	2.0	2.0	1.7	Biological Defence Research, Land Division, DSTO (Fishermans Bend)	x	x	x	x	x	x	x	x	x	x
<b>Austria</b>				0.01	0.03	0.05	0.03	0.02	0.09	0.09	Armament and Defence Technology Agency (Mödling)				x	x	x	x	x	x	x
<b>Belgium</b>											1. Centre de Technologies Moléculaires Appliquées (Brussels)						x	x	x	x	x
											2. Université Catholique de Louvain (Louvain-La-Neuve)						x	x	x	x	x
						0.6	1.0	0.3	0.3	0.4	3. Defense Laboratory Department (Vilvoorde)						x	x	x	x	x
											4. Research Laboratory for Vector Borne Disease (Brussels)						x	-	-	-	-
											5. Faculté des Sciences Agronomiques, UCL (Louvain-La-Neuve)						-	-	-	-	x
<b>Bulgaria</b>		-	-		-	-	NN	NN	NN	NN	1. National Center of Infectious and Parasitic Diseases, Ministry of Health (Sofia)		x	x		x	x	x	x	x	x

<sup>8</sup> National currencies were converted to Euros using the online service, <http://www.finanzen.net/waehrungsrechner>. 15 April of each respective year, the deadline for submitting the CBM to the UN, was selected as the date for the currency conversion.



<b>Latvia</b>						-	-	-	-	-	1. Latvian Centre of Infectious Diseases (Riga)						x	x	x	x	x
<b>Liechtenstein</b>		NN	NN	NN	NN	NN					Nothing new to declare		NN	NN	NN	NN	ND		NN	NN	NN
<b>Lithuania</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nothing to declare	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Luxembourg</b>									ND	ND	Nothing to declare									ND	NI
<b>Madagascar</b>							ND				Nothing to declare							ND			
<b>Malaysia</b>	ND					ND					Nothing to declare	ND					ND				
<b>Netherlands</b>								1.2	1.2 <sup>11</sup>	1.2 <sup>12</sup>	1. TNO Prins Maurits Building Department of CBRN Protection (Rijswijk)								x	x	x
<b>New Zealand</b>	ND	ND	ND		ND	ND	ND	ND	ND	ND	Nothing to declare	ND	ND	ND		ND	ND	ND	ND	ND	NI
<b>Norway</b>			-		-	-	0.5	-			1. Institute of Microbiology, Armed Forces Medical Services (Oslo)			x		x	x	x	x		
<b>Portugal</b>					0.2	0.2	0.1	0.03	0.05	0.05	1. Laboratório de Bromatologia e Defesa Biológica (Lisbon)					x	x	x	x	x	x
<b>Qatar</b>							ND				Nothing to declare							ND			
<b>Republic of Moldova</b>						0.02	0.02	0.04	0.03	0.03	1. The National Center of Public Health (Chisinau)						x	x	x	x	x
<b>Romania</b>			-	NN	NN	-	0.01	0.01	ND	ND	Military Medical Research Center (Bucharest)			x	NN	NN	x	x	x	ND	NI
<b>Serbia</b>							ND		ND	ND	Nothing to declare							ND		ND	NI
<b>Slovakia</b>									ND	ND	Nothing to declare									ND	NI
<b>Slovenia</b>									ND	ND	Nothing to declare									ND	NI
<b>Sweden</b>	2.8	2.8	2.7	2.7	3.1	3.5	3.7	6.6	10.1	10.1	Swedish Defence Research Agency (Umea)				x	x	x	x	x	x	x
											National Veterinary Institute (Uppsala)				-	-	-	-	x	x	x
<b>Switzerland</b>	0.6	0.6	0.6	1.0	1.7	3.9	4.2	4.1	4.1	4.1	1. Spiez Laboratory, Swiss NBC Defence Establishment (Spiez)	x	x	x	x	x	x	x	x	x	x
											2. Instiute of Virology and Immunoprophylaxis (Mittelhäusern)	-	-	-	-	x	x	x	x	x	x
											3. National Reference Center for Emerging Viral Infections (Geneva)	-	-	-	-	x	x	x	x	x	x
											4. National Reference Center for Anthrax (Bern)	-	-	-	-	x	x	x	x	x	x
											5. Bacteriological Laboratory Regional Competence Center- Regional Laboratory West (Geneva)	-	-	-	-	x	x	x	x	x	x

<sup>11</sup> The biological defence budget for the period 2010-2013 was 3,5 Million Euro.

<sup>12</sup> The biological defence budget for the period 2010-2013 was 3,5 Million Euro.



											6. Virological Laboratory Regional Competence Center- Regional Laboratory West (Geneva)	-	-	-	-	x	x	x	x	x	x
											7. Diagnostic Laboratories of the Institute of Microbiology- Regional Competence Center- Regional Laboratory West (Lausanne)	-	-	-	-	x	x	x	x	x	x
											8. Labor Spiez- Regional Competence Center- Regional Laboratory West Central (Spiez)	-	-	-	-	x	x	x	x	x	x
											9. Department of Medical Microbiology- Regional Competence Center- Regional Laboratory East Central (Luzern)	-	-	-	-	x	x	x	x	x	x
											10. Institute of Medical Microbiology – Regional Competence Center- Regional Laboratory East (Zurich)	-	-	-	-	x	x	x	x	x	x
											11. Institute for Medical Virology- Regional Competence Center- Regional Laboratory East (Zurich)	-	-	-	-	x	x	x	x	x	x
											12. Cantonal Laboratory of Basel-Stadt- Regional Competence Center- Regional Laboratory North (Basel)	-	-	-	-	x	x	x	x	x	x
											13. Cantonal Institute of Microbiology- Regional Competence Center- Regional Laboratory South (Bellinzona)	-	-	-	-	x	x	x	x	x	x
<b>Thailand</b>					NN	NN	NN				<i>Nothing new to declare</i>					NN	NN	NN			
<b>Turkey</b>						2.3	NN		1.7	1.7	1. IDC (Ankara)						x	NN		x	x
											2. Refik Saydam National Public Health Agency (Ankara)						x	NN		x	x
<b>Ukraine</b>						-	-				“A national programme for research and development in biodefence does not exist in Ukraine.” “The Institute for Experimental and Clinical Veterinary Medicine conducts research into standard operating procedures for biosecurity and biodefence.” (2012) <i>(Authors translation)</i>							-	-		
<b>UK</b>	73.6	75.0	77.6	65.7	53.6	57.8	62	60.1	59.1	59.1	Defence Science and Technology Laboratory (Porton Down, Salisbury)	x	x	x	x	x	x	x	x	x	x
<b>USA</b>					451.6	475.2	779	743	670	670	1. Plum Island Animal Disease Center (Greenport, TX)					x	x	x	x	x	x
											2. Tyndall AFB, Research Road (Tyndall, FL)					x	x	x	x	-	-
											3. Tyndall AFB, Barnes Drive (Tyndall, FL)					x	x	x	x	-	-
											4. Lothar Salomon Life Sciences Test Facility (Dugway, UT)					x	x	x	-	-	-
											5. U.S. Army Edgewood Chemical and Biological Center (Aberdeen, MD)					x	x	x	x	x	x
											6. U.S. Army Medical Research Institute of Chemical Defense (Aberdeen, MD)					x	x	x	x	x	x
											7. U.S. Army Medical Research Institute of Infectious Diseases (Fort Detrick, MD)					x	x	x	x	x	x
											8. Walter Reed Army Institute of Research (Silver Spring, MD)					x	x	x	-	-	-
											9. Battelle Biomedical Research Center (West Jefferson, OH)					x	x	-	-	-	-
											10. Naval Surface Warfare Center – Dahlgren Division (Dahlgren, VA)					x	x	x	-	x	x
											11. Naval Research Laboratory (Washington, DC)					x	x	x	x	x	x



The following table summarizes the data declared in **CBM Form G** of the publicly available CBM submissions from 2015 and compares them with the information in publicly available CBMs from 2006 to 2014. It provides the names and locations of vaccine production facilities declared in CBM Form G, the year(s) they were declared, and the diseases against which vaccines were produced. Grey cells indicate that there was no CBM submission or that it was not made publicly available in the respective year. “ND” indicates that the state ticked the “Nothing to declare” box in Form 0. “NN” indicates that the state ticked the “Nothing new to declare” box in Form 0. “-” indicates that no data were provided.

Country	Name and location of vaccine production facilities declared in CBM Form G	Cat. A diseases <sup>13</sup>	Other diseases	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015
Australia	1. bioCSL Limited (Parkville and Broadmeadows,)	no	yes	x	x	x	x	x	x	x	x	x	NN
	2. Q Fever Manufacturing Facility (Broadmeadows)	no	yes	-	-	-	x	x	x	-	-	NN	NN
	3. Ludwig Institute for Cancer Research (Heidelberg, VIC)	no	yes	-	-	-	x	x	x	x	x	NN	NN
	4. Queensland Institute of Medical Research (Queensland)	no	no	-	-	-	-	-	-	x	x	NN	NN
Austria	<i>Nothing to declare</i>	n.a.	n.a.				ND	ND	ND	ND	ND	ND	ND
Belgium	1. GlaxoSmithKline Biologicals S.A (Rixensart)	_14	_14						x	x	x	x	x
	2. Pfizer Animal Health (Louvain-la-Neuve)	_14	_14						x	-	-	-	-
Bulgaria	1. BulBio- NCIPD Ltd (Sofia)	Haem fevers	yes		x	x		x	x	x	x	x	x
	2. National Diagnostic and Research Veterinary Medical Institute (Sofia)	Anthrax	yes		-	-		x	-	-	-	-	-
Canada	1. Artemis Technologies Inc. (Guelph)	no	yes						x	x	x	x	x
	2. Bioniche Life Sciences Inc. (Belleville)	no	yes						x	x	x	x	-
	3. Gallant Custom Laboratories Inc. (Cambridge)	no	yes						x	x	x	x	x
	4. Pfizer Animal Health (Saanichton)	no	yes						x	x	x	-	-
	5. Novartis Animal Health Canada Inc. (Mississauga)	no	yes						x	x	x	x	x
	6. Novartis – Aqua Health (Charlottetown and Victoria)	no	yes						x	x	x	x	x
	7. Nutratech Inc. (Winnipeg)	no	yes						x	x	x	x	x
	8. Saskatchewan Research Council (Saskatoon)	no	yes						x	x	x	-	-
	9. Saskatoon Colostrum Co. Ltd. (Saskatoon)	no	yes						x	x	x	x	x
	10. Vetovac Ltée. (Saint-Hyacinthe)	no	yes						x	x	x	-	-
	11. Vetech Laboratories Inc. (Guelph)	no	yes						x	x	-	x	x
	12. Biovet Inc. (Saint-Hyacinthe)	no	yes						x	x	x	x	x
	13. Intervet Canada Corp. (Kirkland)	no	yes						x	x	-	-	-

<sup>13</sup>As designated by the Centers for Disease Control and Prevention (CDC) in the USA.

<sup>14</sup>This information is not provided in the public version of the CBM.

Country	Name and location of vaccine production facilities declared in CBM Form G	Cat. A diseases <sup>13</sup>	Other diseases	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015	
	14. Vétoquinol N.A. Inc. (Lavaltrie)	no	yes						x	x	-	-	-	
	15. Vacci-Vet Inc. (Québec)	n.a.	yes						-	-	-	x	x	
	16. ID Biomedical Corporation of Quebec (GlaxoSmithKline Inc.) (Quebec City)	n.a.	yes						-	-	x	x	x	
	17. Medicago (Québec)	n.a.	yes										x	
	18. Immunovaccine (Halifax)	Anthrax	yes											x
	19. Sanofi Pasteur Limited (Toronto)	n.a.	yes						-	-	x	x	x	
<b>Croatia</b>	1. Institute of Immunology	no.	Yes									x	x	
<b>Cyprus</b>	<i>Nothing to declare</i>	n.a.	n.a.						ND	ND				
<b>Czech Republic</b>	1. Baxter BioScience s.r.o (Kostolec nad Černými Lesy)	no	yes	x			NN	ND	x	NN	NN	NN	NN	
	2. Sevapharma a.s. (Prague)	no	yes	x			NN	ND	x	NN	NN	NN	NN	
	3. Bioveta a.s. (Ivanovice nad Hané)	Anthrax	yes	x			NN	ND	x	NN	NN	NN	NN	
	4. Dyntec s.r.o. (Terezín)	no	yes	x			NN	ND	x	NN	NN	NN	NN	
	5. BIOPHARMA, Research Institute of Biopharmacy and Veterinary Drugs (Jíluvě u Prahy)	no	yes	x			NN	ND	x	NN	NN	NN	NN	
<b>Denmark</b>	1. Statens Serum Institute (Copenhagen)	no	yes		x	x		NN	x	x		x	x	
	2. Bavarian Nordic A/S (Kvistgard)	Smallpox	yes		x	x		NN	x	x		x	x	
<b>Ecuador</b>	<i>Nothing to declare</i>	n.a.	n.a.						ND					
<b>Estonia</b>	<i>Nothing to declare</i>	n.a.	n.a.					ND	ND		n.a.			
<b>Finland</b>	<i>Nothing to declare</i>	n.a.	n.a.	NN	NN	NN	NN	NN	ND	ND	ND	ND	ND	
<b>Georgia</b>	<i>Nothing to declare</i>	n.a.	n.a.				ND	ND	ND					
<b>Germany</b>	1. Novartis Vaccines and Diagnostics GmbH & Co. KG (Marburg)	Botulism	yes	x	x	x	x	x	x	x	NN	x	x	
	2. GlaxoSmithKline Biologicals (Dresden)	no	yes	x	x	x	x	x	x	x	NN	x	x	
	3. IDT Biologika GmbH (Rosslau)	Smallpox	yes	x	x	x	x	x	x	x	NN	x	x	
	4. Rhein Biotech GmbH (Düsseldorf)	no	yes	-	-	-	-	x	x	x	NN	x	x	
	5. Bavaria Nordic GmbH (Berlin)	Smallpox	no	-	-	-	-	x	x	x	NN	-	-	
	6. Vibalogics GmbH (Cuxhaven)	no	yes	-	-	-	-	-	-	x	NN	x	x	
<b>Greece</b>	<i>Nothing to declare</i>	n.a.	n.a.						ND	ND	ND			
<b>Hungary</b>	1. Omninvest Ltd. (Budapest)	no	yes									x	x	
	2. GlaxoSmithKline Biological Kft. (Budapest)	no	yes									-	x	

Country	Name and location of vaccine production facilities declared in CBM Form G	Cat. A diseases <sup>13</sup>	Other diseases	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015
<b>Ireland</b>	1. Elanco Laboratories (Sligo) <sup>15</sup>	-	-	x	x	x	x	x	x				
<b>Japan</b>	1. Denka Seiken Co., Ltd (Tokyo)	no	yes							x	x	x	x
	2. Kitasato Daiichi Sankyo Vaccine Co., Ltd (Saitama)	no	yes							x	x	x	x
	3. Takeda Pharmaceutical co., Ltd (Osaka)	no	yes							x	x	x	x
	4. Research Foundation for Microbial Diseases of Osaka University (Osaka)	no	yes							x	x	x	x
	5. Chemo-Sero-Therapeutic Research Institute (Kumamoto)	Smallpox	yes							x	x	x	x
	6. Japan BCG Laboratory (Tokyo)	no	yes							x	x	x	x
	7. Japan Poliomyelitis Research Institute (Tokyo)	no	yes							x	x	x	x
<b>Latvia</b>	<i>Nothing to declare</i>	-	-						-	ND	ND	ND	ND
<b>Liechtenstein</b>	<i>Nothing new to declare</i>	-	-		NN	NN	NN	NN	NN		NN	NN	NN
<b>Lithuania</b>	<i>Nothing new to declare</i>	-	-	NN	NN	NN	NN	NN	NN	NN	NN	NN	NN
<b>Luxembourg</b>	<i>Nothing to declare</i>	-	-									ND	ND
<b>Madagascar</b>	-	-	-							-			
<b>Malaysia</b>	1. Institute of Veterinary Services (Putrajaya)	no	yes						x				
<b>Netherlands</b>	1. Central Veterinary Institute, part of Wageningen UR (Lelystad)	no	yes								x	x	x
	2. MSD Animal Health (Boxmeer)	no	yes								x	x	x
	3. Nederlands Vaccin Instituut (Bilthoven)	no	yes								x	-	-
	4. WWP (Weesp)	no	yes								x	x	x
	5. Boehringer Ingelheim Animal Health Operation (Weesp)	n.a.	n.a.								x	x	x
	6. Crucell Holland (Leiden)	no	yes								x	x	x
	7. ErasmusMedical Centre (Rotterdam)	no	yes								-	x	x
	8. Bilthoven Biologicals B.V. (Bilthoven)	no	yes								-	x	x
	9. DSM Biologics (Groningen)	no	yes								-	x	x
<b>New Zealand</b>	<i>Nothing to declare</i>	n.a.	n.a.	ND	ND	ND		ND	ND	ND	ND	ND	ND
<b>Norway</b>	1. Alpharma (Overhalla)	no	yes			x		x	x	x	x		
	2. The National Veterinary Institute (Oslo)	no	yes			x		x	x	x	x		

<sup>15</sup>Not currently active but maintains capacity to produce human or animal vaccines.

Country	Name and location of vaccine production facilities declared in CBM Form G	Cat. A diseases <sup>13</sup>	Other diseases	Decl. 2006	Decl. 2007	Decl. 2008	Decl. 2009	Decl. 2010	Decl. 2011	Decl. 2012	Decl. 2013	Decl. 2014	Decl. 2015
	3. Norwegian Institute of Public Health (Nydalen)	no	yes			x		x	x	x	x		
<b>Portugal</b>	1. Genibet Biopharmaceuticals	no	yes					ND	ND	x	x	x	x
<b>Quatar</b>	<i>Nothing to declare</i>	n.a.	n.a.							ND			
<b>Republic of Moldova</b>	<i>Nothing to declare</i>	n.a.	n.a.						ND	ND	ND	ND	ND
<b>Romania</b>	1. "Cantacuzino" National Institute of R&D for Microbiology and Immunology (Bucharest)	no	yes			-	-	x	NN	x	x	x	x
	2. National Society Pasteur Institute S.A. (Bucharest)	no	yes			x	x	-	NN	x	x	x	x
	3. S.C. Pasteur Filiala Filipești S.R.L (Prahova)	no	yes			-	-	-	-	-	x	x	x
	4. S.C. Romvac Company S.A. (Voluntari)	no	yes			-	-	-	-	-	x	x	x
<b>Serbia</b>	Institute of Immunology and Virology "Torlak" (Belgrad)	no	yes							x		x	x
<b>Slovakia</b>	<i>Nothing to declare</i>	n.a.	n.a.									ND	ND
<b>Slovenia</b>	<i>Nothing to declare</i>	n.a.	n.a.									ND	ND
<b>Sweden</b>	1. SBL Vaccin AB (Solna)	no	yes	x	x	x	x	x	x	-	NN	-	-
	2. UniTech Biopharma (Matfors)	no	yes	x	x	x	x	x	x	-	NN	-	-
	3. Cobra Biopharma (Matfors)	no	yes	-	-	-	-	-	-	x	NN	-	-
	4. Crucell Sweden AB (Stockholm)	no	yes	-	-	-	-	-	-	x	x	x	x
<b>Switzerland</b>	1. Crucell Switzerland AG (Bern)	no	yes	NN	NN	NN	NN	x	x	x	x	x	x
	2. Cytos Biotechnology AG (Schlieren)	no	no	NN	NN	NN	NN	x	x	x	-	-	-
	3. Pevion Biotech Ltd. (Ittingen)	no	yes	NN	NN	NN	NN	x	x	x	x	-	-
<b>Thailand</b>	1. The Government Pharmaceutical Organisation (Bangkok)	no	yes					x	x	x			
	2. Merieux Biological Products Co., Ltd. (Chachoengsao)	no	yes					-	-	x			
	3. Queen Saovabha Memorial Institute (Bangkok)	no	yes					-	-	x			
	4. BioNet-Asia Co., Ltd. (Bangkok)	no	yes					-	-	x			
	5. Bureau of Veterinary, Department of Livestock Development (Nakhon Ratchasima)	Anthrax	yes					-	-	x			
<b>Turkey</b>	1. Konya Veterinary Control and Research Institute (Meram-Konya)	no	yes						x	NN		-	-
	2. Pendik Veterinary Control and Research Institute (Pendik-Istanbul)	no	yes						x	NN		-	-
	3. Central Veterinary Control and Research Institute (Ankara)	Anthrax	yes						x	NN		x	x
	4. Veterinary Control Institute (Ankara)	no	yes						-	NN		x	x

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	5. Veterinary Control Institute (Atakum)	no	yes						-	NN		x	x
	6. Foot and Mouth Disease Institute (Ankara)	no	yes						-	NN		x	x
	7. VETAL Animal Health Products Company (Adiyaman)	no	yes						-	NN		x	x
	8. DOLL VET Veterinary Vaccine (Sanliurfa)	no	yes						-	NN		x	x
	9. ATAFEN Veterinary Materials Production Company (Ismir)	no	yes						-	NN		x	x
Ukraine	1. Biofabrika Suma (Suma)	Anthrax	yes						x	x			
	2. Biofabrika Dnepropetrovsk (Dnepropetrovsk)	no	yes						x	x			
	3. Biofabrika Charkov (Charkov)	no	yes						x	x			
	4. Biofabrika Cherson (Cherson)	Anthrax	yes						x	x			
	5. Biofabrika Novogalechinsk (Kiev)	no	yes						x	x			
	6. OOO "Ukrvetpromsnab" (Brovar)	no	yes						x	x			
	7. Corporation "Ukrzoovetpromsnab" (Kiev)	no	yes						x	x			
	8. Institute for Experimental and Clinical Veterinary Medicine(Charkov)	no	yes						x	x			
	9. Institute for Veterinary Medicine of the National Academy of Science (Kiev)	no	yes						x	x			
	10. Closed Joint Stock Company "Biolek" (Charkov)	no	yes						x	-			
	11. Pharmalife GmbH (Lvov)	no	yes						x	-			
	12. Open Joint Stock Company "Pharmak" (Kiev)	no	yes						x	-			
United Kingdom	1. Public Health England (Porton Down)	Anthrax	no	x	x	x	x	x	x	x	x	x	x
	2. MedImmune (Liverpool)	no	yes	x	x	x	x	x	x	x	x	x	x
	3. Novartis Vaccines and Diagnostics Limited (Liverpool)	no	yes	x	x	x	x	x	x	x	x	x	x
USA	1. Emergent BioDefense Operations Lansing Inc. (Lansing, MI)	Anthrax	no					x	x	x	x	x	x
	2. MassBiologics (Boston, MA)	no	yes					x	x	x	x	x	x
	3. Med Immune LLC (Gaithersburg, MD)	no	yes					x	x	x	x	x	x
	4. Merck & Co, Inc. (Whitehouse Station, NJ)	no	yes					x	x	x	x	x	x
	5. Organon Teknika Corporation LLC (Durham, NC)	no	yes					x	x	x	x	x	x
	6. Sanofi Pasteur Inc. (Swiftwater, PA)	no	yes					x	x	x	x	x	x
	7. Sanofi Pasteur Biologics Co. (Cambridge, MA)	Smallpox	no					x	x	x	x	x	x
	8. Wyeth Pharmaceuticals Inc. (New York, NY)	no	yes					x	x	x	x	x	x

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	9. Barr Laboratories, Inc. (Forrest, VA)	no	yes					-	-	x	x	x	x
	10. Protein Sciences Corporation (Meriden, CT)	no	yes					-	-	-	x	x	x

### **Research Group for Biological Arms Control**

The aim of the Research Group is to contribute, through innovative research and outreach activities, to the universal prevention of biological weapons development, production and use. The focus of activities is twofold.

Firstly, the Research Group contributes to preventing the erosion of the universal bioweapons prohibition by opposing norm-harming activities. Secondly, it develops new concepts and instruments for monitoring bioweapon relevant activities and for verifying and enforcing compliance with the norm against bioweapons.

### **Contact**

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