

欧盟微生物标准物质

本目录为微生物欧盟标准物质，IRMM 和 BCR 是 JRC-EC-IRMM 的注册商标，均是以欧盟委员会联合研究中心标准物质与测量研究院(IRMM)为核心研发的标准物质（CRM）。

*基于欧盟相关国家法律规定和当地海关要求，订购微生物标准物质前，需要由最终用户填写《自用说明》并直接邮递至国外。

*微生物标准物质的进出口均有特殊要求，国际运费标准将高于其他标准物质。

编号	描述	规格
IRMM-447	单核细胞增生李斯特菌 gDNA	vial
IRMM-448	空肠弯曲杆菌 gDNA (NCTC 11351)	vial
IRMM-449	大肠埃希菌 gDNA	vial
BCR-506	奶粉中肠球菌 (WR63)	10 caps
BCR-507R	奶粉中鼠伤寒沙门氏菌	10 caps
BCR-527	奶粉中阴沟肠杆菌(WR3)	10 caps
BCR-528	奶粉中蜡样芽孢杆菌	10 caps.
BCR-594	奶粉中大肠杆菌	10 caps
BCR-595	奶粉中李斯特菌	10 caps.
IRMM-311	Genomic DNA of Bacillus licheniformis DSM 5749 in agarose inserts for Pulsed Field Gel Electrophoresis (PFGE)	vial
IRMM-312	Genomic DNA of Bacillus subtilis DSM 5750 in agarose inserts for Pulsed Field Gel Electrophoresis (PFGE)	vial
IRMM-351	Escherichia coli 0157 in material spheres (Bioball® format)	vial
IRMM-352	Salmonella enteritidis in material spheres (Bioball® format)	vial
IRMM-354	Candida albicans (NCPP 3179) in material pheres (Bioball® format)	vial
IRMM-355	Enterococcus faecalis in material spheres (Bioball® format)	vial

注：以上样品的相关数据请见下面“微生物数据列表”；如需要更详细的信息，请联系我们。

微生物数据列表：

Purified genomic DNA (gDNA)

The stable genomic DNA (gDNA) standards (IRMM-447, 448, 449) have been developed for the verification and detection of food-borne pathogens by diagnostic polymerase chain reaction (PCR) within the European FOOD-PCR project. These standards support harmonisation and validation of different PCR methods by their use as taxonomic controls in PCR reactions.

Code	Product	Unit
IRMM-447	Genomic DNA of Listeria monocytogenes 单核细胞增生李斯特菌gDNA Freeze dried genomic DNA Certified identity: genomic DNA Listeria monocytogenes (strain 4B, NCTC 11994) Indicative value for the mass of genomic DNA per vial Dry ice shipment required	vial
IRMM-448	Genomic DNA Campylobacter jejuni (NCTC 11351) 空肠弯曲杆菌gDNA (NCTC 11351) Indicative value Mass of genomic DNA per vial 71 ng Dry ice shipment required	vial
IRMM-449	Genomic DNA of Escherichia coli 大肠埃希菌gDNA	vial

Freeze dried genomic DNA
 Certified identity: genomic DNA Escherichia coli O157, strain
 EDL 933 Indicative value for the mass of genomic DNA per vial
 Dry ice shipment required

Certified materials for microbiological properties

Code	Product		Unit
BCR-506	Enterococcus faecium (WR63) in milk powder 奶粉中肠球菌 (WR63)		10 caps.
	BCR-506 consists of 0.26 g milk powder (with a tolerance interval of $\pm 5\% \text{ m/m}$), artificially contaminated with Enterococcus faecium (WR63), contained in a gelatin capsule. The entire capsule should be reconstituted according to the instruction for use.		
	Colony forming particles of Enterococcus faecium (WR63) according to the procedure	Number of colony forming particles (cfp) Certified value [cfp/capsule] Uncertainty interval [cfp/capsule]	
	ISO 7899/2, 1984 KFA 76 71 - 81		
	ISO 7899/2, 1984 m-EA 72 63 - 82		
	ISO 6222, 1988 YA 109 102 - 117		
	Dry ice shipment required		
BCR-507R	Salmonella typhimurium in milk powder 奶粉中鼠伤寒沙门氏菌		10 caps.
	BCR-507R consists of 0.29 g artificially contaminated spray dried milk contained in a blue/white gelatine capsule. The strain used for the contamination is Salmonella typhimurium.		
	Colony forming particles of Salmonella typhimurium according to the procedure	Number of colony forming particles (cfp) Certified value [cfp/capsule] Uncertainty interval [cfp/capsule]	
	Enumeration procedure 5.0 4.5 - 5.4		
	Fraction of negative capsules of Salmonella typhimurium according to the procedure	Fraction of negative capsules Certified value [%] Uncertainty interval [%]	
	Enumeration procedure 1.1 0 - 2.1		
	Presence/absence procedure 1.6 0 - 2.8		
	Dry ice shipment required		
BCR-527	Enterobacter cloacae (WR3) in milk powder 奶粉中阴沟肠杆菌(WR3)		10 caps.
	BCR-527 consists of 0.308 g milk powder, artificially contaminated with Enterobacter cloacae (WR3), contained in a gelatine capsule.		
	Colony forming particles of Enterobacter cloacae (WR3) according to the procedure	Number of colony forming particles (cfp) Certified value [cfp/capsule] Uncertainty interval [cfp/capsule]	
	ISO 9308-1, 1990 LSA 34 29 - 40		
	Dry ice shipment required		
BCR-528	Bacillus cereus in milk powder 奶粉中蜡样芽孢杆菌		10 caps.
	BCR-528 consists of 0.317 g artificially contaminated with spray dried milk contained in an ochre/white gelatine capsule. The strain used for the contamination is Bacillus cereus (ATCC 9139).		
	Colony forming particles of Bacillus cereus according to the procedure	Number of colony forming particles (cfp) Certified value [cfp/capsule] Uncertainty interval [cfp/capsule]	
	MEYP (ISO 7932) after 24 h incubation 53.4 51.7 - 55.2		
	MEYP (ISO 7932) after 48 h incubation 53.7 52.1 - 55.4		
	PEMBA (L 00.00 - 25) after 24 h incubation 55.0 52.8 - 57.4		
	PEMBA (L 00.00 - 25) after 48 h incubation 55.8 53.6 - 58.0		
	Indicative value for colony forming particles of Bacillus cereus according to the procedure SBA (Analysis no 67) after 24 h incubation		
	Dry ice shipment required		
BCR-594	Escherichia coli in milk powder 奶粉中大肠杆菌		10 caps.
	BCR-594 consists of 0.28 g milk powder (with a mass tolerance of $\pm 5\% \text{ m/m}$), artificially contaminated with Escherichia coli (WR1), contained in a gelatin capsule.		
	Number of colony forming particles (z) of Escherichia coli (WR1) in 1 mL of suspension of reconstituted artificially contaminated milk powder.		
	Colony forming particles of Escherichia coli according to the procedure	Certified value Uncertainty Relevant below the certified value Relevant above the certified value	
	ISO 9308-1, 1990 T7A 30/37 56 8 10		
	ISO 9308-1, 1990 T7A 30/44 49 8 10		
	ISO 9380-1, 1990 LSA 30/37 40 7 8		
	ISO 9308-1, 1990 LSA 30/44 36 7 8		
	Dry ice shipment required		

BCR-595	<i>Listeria monocytogenes</i> in milk powder 奶粉中李斯特菌 BCR-595 consists of 0.34 g artificially contaminated spray dried milk contained in an orange/white gelatine capsule. The strain used for the contamination is <i>Listeria monocytogenes</i> (Scott A strain).	10 caps.
	Colony forming particles of <i>Listeria monocytogenes</i> according to the procedure	Number of colony forming particles (cfp) Certified value [cfp/capsule] Uncertainty interval [cfp/capsule]
	Enumeration procedure	7.2 6.8 - 7.6
	Fraction of negative capsules of <i>Listeria monocytogenes</i> according to the procedure	Fraction of negative capsules Certified value [%] Uncertainty interval [%]
	Enumeration procedure	0.075 0.05 - 0.112
	Presence/absence procedure	1.2 0 - 2.3
	according to IDF standard 143	
	Dry ice shipment required	
Code	Product	Unit
IRMM-311	Genomic DNA of <i>Bacillus licheniformis</i> DSM 5749 in agarose inserts for Pulsed Field Gel Electrophoresis (PFGE)	vial
	The intended use of this material is the taxonomic identification of the authorised probiotic feed additive <i>Bacillus licheniformis</i> DSM 5749 by pulsed field gel electrophoresis (PFGE). The material is supplied in a vial containing one agarose insert of undigested genomic DNA of <i>Bacillus licheniformis</i> DSM 5749. Certified values and uncertainties are provided for SfiI digested DNA fragments in the size interval 50 kb - 90 kb and requires the use of a specified analytical procedure	
	Fragment length Certified value [kb] Uncertainty [kb]	
	SfiI digested DNA fragments in the Band no size interval 50 kb – 90 kb	
	1.....89.6 4.7 2.....80.9 2.5 3.....75.3 2.7 4.....72.2 3.5 5.....66.9 1.9 6.....64.6 2.9 7.....60.3 1.3 8.....56.5 1.3 9.....53.9 1.3 10.....50.6 1.3	
IRMM-312	Genomic DNA of <i>Bacillus subtilis</i> DSM 5750 in agarose inserts for Pulsed Field Gel Electrophoresis (PFGE)	vial
	The intended use of this material is the taxonomic identification of the authorised probiotic feed additive <i>Bacillus subtilis</i> DSM 5750 by pulsed field gel electrophoresis (PFGE). The material is supplied in a vial containing one agarose insert of undigested genomic DNA of <i>Bacillus subtilis</i> DSM 5750. Certified values and uncertainties are provided for SfiI digested DNA fragments in the size interval 15 kb - 97 kb and requires the use of a specified analytical procedure.	
	Fragment length Certified value [kb] Uncertainty [kb]	
	SfiI digested DNA fragments in the Band no size interval 15 kb – 97 kb	
	1.....89.2 0.9 2.....81.4 0.8 3.....77.7 0.6 4.....62.5 1.8 5.....59.5 2.1 6.....44.0 2.4 7.....29.2 2.0 8.....23.6 1.3 9.....18.6 1.3	
IRMM-351	<i>Escherichia coli</i> O157 in material spheres (Bioball® format) Each vial contains one material sphere of <i>Escherichia coli</i> O157 (NCTC 12900).	vial
	Certified values	
	cfu per material sphere on nutrient agar 4 ± 2 cfu cfu per material sphere on enterohemolysin agar 5 ± 2 cfu	
	Recommendation: For application in presence/absence tests, analyse at least two vials of the CRM.	
	Dry ice shipment required	
	BioBall® - Trademark of BIOMERIEUX INDUSTRY	
IRMM-352	<i>Salmonella enteritidis</i> in material spheres (Bioball® format) Each vial contains one material sphere of <i>Salmonella enteritidis</i> (NCTC 12694).	vial
	Certified values	

	cfu per material sphere on nutrient agar5 ± 2 cfu cfu per material sphere on xylose lysine deoxycholate agar5 ± 2 cfu Recommendation: For application in presence/absence tests, analyse at least two vials of the CRM. Dry ice shipment required BioBall® - Trademark of BIOMERIEUX INDUSTRY	
IRMM-354	Candida albicans (NCPF 3179) in material spheres (Bioball® format) Each vial contains one material sphere of Candida albicans (NCPF 3179). IRMM-354 is intended to be used for the measurement of Candida albicans by colony counting on nutrient agar or OGYE agar according to ISO 7218 and ISO 13681 respectively.	vial
	Number of colony forming units (cfu) Certified value [cfu] Uncertainty [cfu]	
	cfu per material sphere on ¹⁾917168 nutrient agar (NA)	
	cfu per material sphere on912173 Oxytetracyclin-Glucose-YeastExtract agar (OGYE) ²⁾	
	1) as defined by the procedure according to ISO 7218 [1] 2) as defined by the procedure according to ISO 13681 [2]	
	BioBall® - Trademark of BIOMERIEUX INDUSTRY	
IRMM-355	Enterococcus faecalis in material spheres (Bioball® format) Each vial contains one material sphere of Enterococcus faecalis (CIP 106877). This CRM is intended to be used for the measurement of Enterococcus faecalis by colony counting on horse blood agar or Slanetz and Bartley agar according to ISO 7218 [1] and ISO 7899-2 [2] respectively.	vial
	Number of colony forming units (cfu) Certified value [cfu] Uncertainty [cfu]	
	cfu per material sphere on917168 horse blood agar ¹⁾	
	cfu per material sphere on912173 Slanetz and Bartley agar ²⁾	
	1) as defined by the procedure according to ISO 7218 [1] 2) as defined by the procedure according to ISO 13681 [2]	
	BioBall® - Trademark of BIOMERIEUX INDUSTRY	