

Technical Bulletin

Organisms Inactivated by Gamma Irradiation at 25 - 35 kGy

(Summarized from in-depth validation performed by SAFC Biosciences)

Organism	Type	Size	Log Reduction
E.coli <i>Escherichia coli</i>	Gram Negative rod	1.5 µm - 4.0 µm	> 6
B.pumilus <i>Bacillus pumilus</i>	Gram Positive rod Spore former	0.6 µm - 2.5 µm	> 6
C.albicans <i>Candida albicans</i>	Fungus (dimorphic)	2 µm - 3 µm	> 6
A.laidlawii <i>Acholeplasma laidlawii</i>	Mycoplasma	0.3 µm - 0.8 µm	> 8
JH Strauss	Bacteriophage	24 nm - 26 nm	1
BVD <i>Bovine Viral Diarrhea</i> (cytopathic)	Togavirus (NADL - strain) ssRNA enveloped	30 nm - 60 nm	6
PI ₃ <i>Parainfluenza Type 3</i>	Paramyxovirus ssRNA enveloped	100 nm - 250 nm	6
IBR <i>Infectious Bovine Rhinotracheitis</i>	Herpes dsDNA enveloped	100 nm	5
BTV <i>Bluetongue Virus</i>	Orbivirus dsRNA	60 nm - 80 nm	> 3
FELV <i>Feline Leukemia Virus</i>	Retrovirus RNA	100 nm - 120 nm	> 3
MVM <i>Minute Virus of Mice</i>	Parvovirus ssDNA nonenveloped	25 nm	2
PPV <i>Porcine Parvovirus</i>	Parvovirus ssDNA nonenveloped	18 nm - 25 nm	1

United States

SAFC Biosciences, Inc.
13804 W. 107th Street
Lenexa, Kansas 66215
USA
Phone +1 913-469-5580
Toll free-USA 1 800-255-6032
Fax +1 913-469-5584
E-mail info-na@sial.com

Europe

SAFC Biosciences Ltd.
Smeaton Road, West Portway
Andover, Hampshire SP10 3LF
UNITED KINGDOM
Phone +44 (0)1264-333311
Fax +44 (0)1264-332412
E-mail info-eu@sial.com

Asia Pacific

SAFC Biosciences Pty. Ltd.
18-20 Export Drive
Brooklyn, Victoria 3025
AUSTRALIA
Phone +61 (0)3-9362-4500
Toll free-AUS 1 800-200-404
Fax +61 (0)3-9315-1656
E-mail info-ap@sial.com

Warranty, Limitation of Remedies

S AFC Biosciences warrants to the purchaser for a period of one year from date of delivery that this product conforms to its specifications. Other terms and conditions of this warranty are contained in SAFC Biosciences' written warranty, a copy of which is available upon request. ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. In no case will SAFC Biosciences be liable for any special, incidental, or consequential damages arising out of this product or the use of this product by the customer or any third party based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. SAFC Biosciences expressly disclaims any warranty against claims by any third party by way of infringement or the like. THIS PRODUCT IS INTENDED FOR PURPOSES DESCRIBED ONLY AND IS NOT INTENDED FOR ANY HUMAN OR THERAPEUTIC USE.

Additional Terms and Conditions are contained in the product Catalog, a copy of which is available upon request.

© 2006 SAFC Biosciences, Inc.

Issued April 2006 T022
0103 1205

United States

SAFC Biosciences, Inc.
13804 W. 107th Street
Lenexa, Kansas 66215
USA

Phone +1 913-469-5580
Toll free-USA 1 800-255-6032
Fax +1 913-469-5584
E-mail info-na@sial.com

Europe

SAFC Biosciences Ltd.
Smeaton Road, West Portway
Andover, Hampshire SP10 3LF
UNITED KINGDOM

Phone +44 (0)1264-333311
Fax +44 (0)1264-332412
E-mail info-eu@sial.com

Asia Pacific

SAFC Biosciences Pty. Ltd.
18-20 Export Drive
Brooklyn, Victoria 3025
AUSTRALIA

Phone +61 (0)3-9362-4500
Toll free-AUS 1 800-200-404
Fax +61 (0)3-9315-1656
E-mail info-ap@sial.com

www.safcbiosciences.com