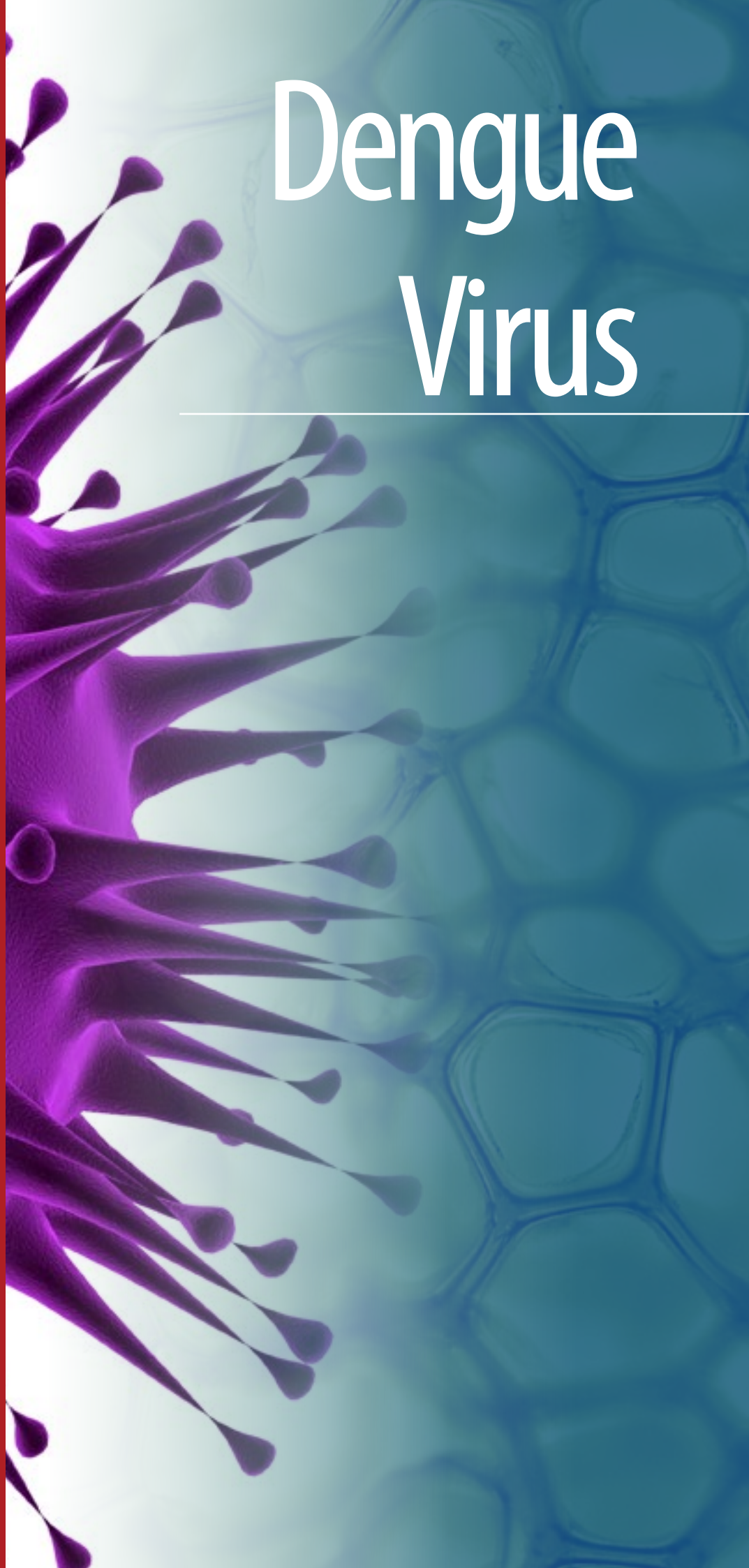




Fitzgerald

www.fitzgerald-fii.com

Dengue Virus



Fitzgerald Industries International is a global leader in the supply and manufacturer of high quality, cost-effective antibodies, proteins, ELISA kits, conjugates, and associated biological reagents. For more than 25 years, Fitzgerald has established a firm foothold in the supply chain of some of the prestigious IVD manufacturers worldwide. We offer over 70,000 products with specialties in Infectious Disease, Cancer, Cardiac Markers, Hormones, Drugs of Abuse, and more.

Based in Acton, MA, our facility houses our laboratories and operations team, as well as our highly skilled sales and technical support team. We have built our business on the foundations of excellent customer service and the highest quality of product, and with the belief that anything can be accomplished for the benefit of our customers.

Dengue Virus

Dengue is the second largest viral disease in the world, and is most prevalent throughout the tropics and subtropics. Outbreaks have occurred recently in the Caribbean, including Puerto Rico, the U.S. Virgin Islands, Cuba, and in Paraguay in South America, and Costa Rica in Central America.

Dengue virus is one of four serotypes and is the cause of dengue fever. It is a mosquito-borne single positive-stranded RNA virus of the family Flaviviridae; genus Flavivirus. All four serotypes can cause the full spectrum of disease. The primary life cycle of the dengue virus involves humans and mosquitoes.

Due to no cross protection between different serotype infection, Dengue virus can cause primary and secondary infections. Primary infection usually has increased IgM from 3-7 days after infection, with an increase in IgG after 7-10 days. Secondary infection can occur with more severe symptoms, with detection of high levels of IgG and lower/absent levels of IgM. For this reason, many diagnostic companies are focusing efforts on detecting IgM levels to catch viral infection at an earlier stage, but so far this has remained a challenge.

Fitzgerald provides more than 40 Dengue antibodies and proteins specific to a large range of subtypes and specific residues of the Dengue family of viruses. We also provide a selection of Dengue positive plasma, with differing levels of IgG and IgM (see table below), which can be used in the research and development of IgG and IgM specific diagnostic tests. We can provide samples of these for testing, in addition to bulk quantities for further manufacture.

Cat No.	Name
90-1003	Dengue IgG + IgM Positive Plasma
90-1001	Dengue IgG Positive Plasma
90-1002	Dengue IgM Positive Plasma

Antibody Matched Pairs for Lateral Flow Assays

In addition, Fitzgerald offer antibody pairs which are validated for lateral flow assays, each pair with the assigned capture and detection antibodies, allowing more efficient optimization of Dengue Rapid Tests (see table below).

Capture Antibody	Detection Antibody
10-1506 Dengue NS1 mAb	10-1507 Dengue NS1 mAb
10-1507 Dengue NS1 mAb	10-1250 Dengue NS1 mAb

Dengue Antibodies

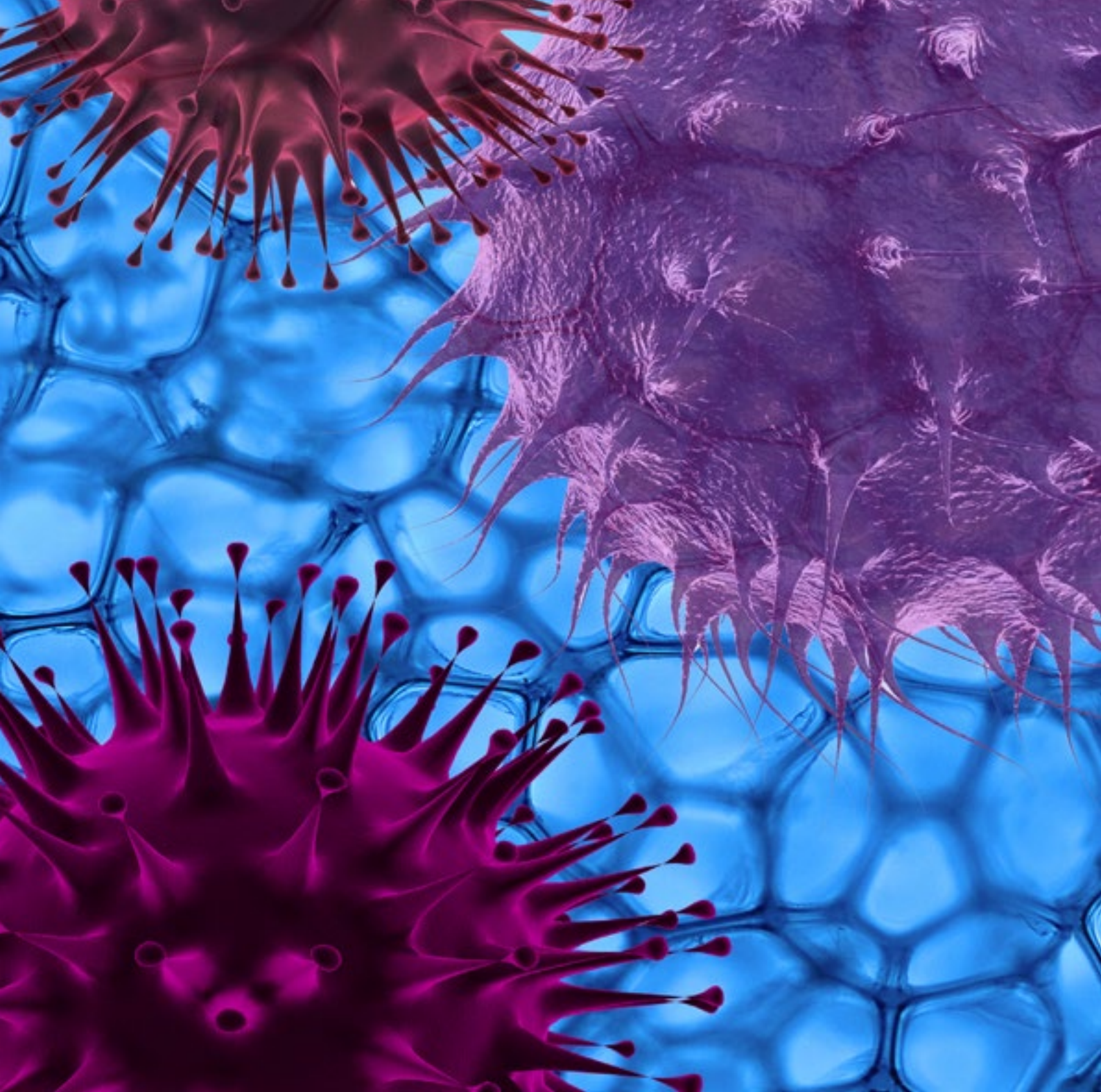
Cat No.	Name	Host	Clone	Applications
10-D35A	Dengue mAb (Complex)	Mouse	M8051125	ICC, IF
10-1498	Dengue NS1 mAb	Mouse	M59470	ELISA, IFA, IHC, Lateral Flow, WB
10-1497	Dengue NS1 mAb	Mouse	M59469	ELISA, IFA, IHC, Lateral Flow, WB
10-1496	Dengue NS1 mAb	Mouse	M59468	ELISA, IFA, IHC, Lateral Flow, WB
10-1495	Dengue NS1 mAb	Mouse	M59467	ELISA, IFA, IHC, Lateral Flow, WB
10-1250	Dengue NS1 mAb	Mouse	M12214	Lateral Flow
10-1246	Dengue NS1 mAb	Mouse	M12211	Lateral Flow
10-1507	Dengue NS1 mAb	Mouse	M53233	Lateral Flow
10-1506	Dengue NS1 mAb	Mouse	M53232	Lateral Flow
10-D31A	Dengue Type 1 mAb	Mouse	M8051121	IF
10-D32A	Dengue Type 2 mAb	Mouse	M8051122	IF
10-D33A	Dengue Type 3 mAb	Mouse	M8051123	IF
10-D34A	Dengue Type 4 mAb	Mouse	M8051124	IF

Dengue Recombinant Proteins

Cat No.	Name	Applications
80-1348	Dengue NS1 protein (His tag)	ELISA, ICC, Dot Blot, WB
80R-4279	Dengue NS1 protein (His tag)	ELISA, WB
30R-3391	Dengue NS1 protein (C-terminal)	ELISA, WB
80R-4280	Dengue NS1 protein (N-terminal)	ELISA, WB

Dengue Native Proteins

Cat No.	Name	Applications
30-AD32	Dengue protein	WB, Lateral Flow, ELISA, Conjugation
30-1324	Dengue Type 1 protein	ELISA, Immunoassays, WB
30-1325	Dengue Type 2 protein	ELISA, Immunoassays, WB
30-1326	Dengue Type 3 protein	ELISA, Immunoassays, WB
30-1327	Dengue Type 4 protein	ELISA, Immunoassays, WB



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