

Certificate of Analysis for NR-51698

Flucelvax® Quadrivalent Influenza Vaccine, 2018/2019 Season

Catalog No. NR-51698

This reagent is the property of the U.S. Government.

Product Description: Flucelvax[®] Quadrivalent Influenza Vaccine, 2018/2019 Season is an inactivated influenza virus vaccine prepared from four strains of influenza viruses propagated in Madin-Darby Canine Kidney (MDCK) cells.

Lot¹: 252380 Manufacturing Date: 2018

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	Clear to slightly opalescent liquid
Hemagglutinin Content A/Singapore/GP1908/2015 IVR-180 (H1N1) A/North Carolina/04/2016 (H3N2) B/Iowa/06/2017 (B Victoria lineage) B/Singapore/INFTT-16-0610/2016 (B Yamagata lineage)	15 μg 15 μg 15 μg 15 μg	15 µg 15 µg 15 µg 15 µg
Hemagglutinin Concentration A/Singapore/GP1908/2015 IVR-180 (H1N1) A/North Carolina/04/2016 (H3N2) B/Iowa/06/2017 (B Victoria lineage) B/Singapore/INFTT-16-0610/2016 (B Yamagata lineage)	30 µg per mL 30 µg per mL 30 µg per mL 30 µg per mL	30 µg per mL 30 µg per mL 30 µg per mL 30 µg per mL
Residual Components MDCK protein Protein other than hemagglutinin MDCK cell DNA β-propiolactone Polysorbate 80 Cetyltrimethylammonium bromide	≤ 8.4 µg ≤ 160 µg ≤ 10 ng < 0.5 µg ≤ 1500 µg ≤ 18 µg	≤ 8.4 μg ≤ 160 μg ≤ 10 ng < 0.5 μg ≤ 1500 μg ≤ 18 μg

NR-51698 consists of 0.5 mL prefilled syringe. This vaccine preparation is being released for research use only and not for human use. Vaccines produced for the 2018-2019 season are now past their expiration dates (EXP. 31MAY2019). All quality control testing completed and provided by Segirus, Inc.

/Heather Couch/

www.beiresources.org

Heather Couch 25 JUL 2019

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the manufacturer to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898