

## Heat-Inactivated Culture Fluids

ZeptoMetrix® is committed to helping your laboratory with its testing needs. We offer a diverse collection of heat-inactivated culture fluids (CFHI) for use in research and diagnostic assay design and validation.

Covering your testing & research needs with a wide range of viruses, ZeptoMetrix CFHI products are:

- **Convenient.** Provided in 1 mL aliquots with a pre-inactivation titer.
- **Versatile.** Can be used for limit of detection (LOD), cross-reactivity studies, inclusivity, sample stability and microbial interference.
- **Safe/Non-infectious.** Great alternative for BSL-3 viruses.
- **Comprehensive.** Over 40 different viruses available.

Ask about our custom capabilities. Talk to us about your specific needs and let ZeptoMetrix build a custom solution tailored for you.

Product availability may vary, please contact customer service for more information.



| Item Number           | Description                                                                                | Use*           |
|-----------------------|--------------------------------------------------------------------------------------------|----------------|
| <b>Adenovirus</b>     |                                                                                            |                |
| 0810050CFHI           | Adenovirus Type 1 (Species C) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810050CFNHI          | Adenovirus Type 1 (Isolate 1) (Species C) Culture Fluid, Heat Inactivated (1 mL)           | RUO            |
| 0810110CFHI           | Adenovirus Type 2 (Species C) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810062CFHI           | Adenovirus Type 3 (Species A) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810070CFHI           | Adenovirus Type 4 (Species E) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810020CFHI           | Adenovirus Type 5 (Species C) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810111CFHI           | Adenovirus Type 6 (Species C) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810021CFHI           | Adenovirus Type 7 (Species A) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810069CFHI           | Adenovirus Type 8 (Species D) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810532CFHI           | Adenovirus Type 9 (Species D) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810533CFHI           | Adenovirus Type 10 (Species D) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810112CFHI           | Adenovirus Type 11 (Species A) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810108CFHI           | Adenovirus Type 14 (2006 Isolate) (Species A) Culture Fluid, Heat Inactivated (1 mL)       | RUO            |
| 0810115CFHI           | Adenovirus Type 20 (Species D) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810116CFHI           | Adenovirus Type 21 (Species A) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810117CFHI           | Adenovirus Type 26 (Species D) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810534CFHI           | Adenovirus Type 30 (Species D) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810073CFHI           | Adenovirus Type 31 (Species A) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810564CFHI           | Adenovirus Type 32 (Species D) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 081019CFHI            | Adenovirus Type 37 (Species D) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810084CFHI           | Adenovirus Type 40 (Strain: Dugan) (Species F) Culture Fluid, Heat Inactivated (1 mL)      | RUO            |
| 0810085CFHI           | Adenovirus Type 41 (Strain: Tak) (Species F) Culture Fluid, Heat Inactivated (1 mL)        | RUO            |
| <b>Astrovirus</b>     |                                                                                            |                |
| 0810275CFHI           | Astrovirus Type 2 Culture Fluid, Heat Inactivated (1 mL)                                   | RUO            |
| 0810273CFHI           | Astrovirus Type 4 (Strain: ERE IID 1358) Culture Fluid, Heat Inactivated (1 mL)            | RUO            |
| 0810276CFHI           | Astrovirus Type 4 (Strain: ERE IID 2868) Culture Fluid, Heat Inactivated (1 mL)            | RUO            |
| 0810277CFHI           | Astrovirus Type 8 (Strain: ERE IID 2371) Culture Fluid, Heat Inactivated (1 mL)            | RUO            |
| <b>BK Virus</b>       |                                                                                            |                |
| 0810065CFHI           | BK Virus Culture Fluid, Heat Inactivated (1 mL)                                            | RUO            |
| <b>Coronavirus</b>    |                                                                                            |                |
| 0810229CFHI           | Coronavirus (Strain: 229E) Culture Fluid, Heat Inactivated (1 mL)                          | RUO            |
| 0810228CFHI           | Coronavirus (Strain: NL63) Culture Fluid, Heat Inactivated (1 mL)                          | RUO            |
| 0810024CFHI           | Coronavirus (Strain: OC43) Culture Fluid, Heat Inactivated (1 mL)                          | RUO            |
| <b>MERS-CoV</b>       |                                                                                            |                |
| 0810575CFHI           | MERS-CoV (Strain: Florida/USA-2 Saudi Arabia 2014) Culture Fluid, Heat Inactivated (1 mL)  | <b>CCL</b> RUO |
| <b>Coxsackievirus</b> |                                                                                            |                |
| 0810140CFHI           | Coxsackievirus Type A1 (Strain: Tompkins) Culture Fluid, Heat Inactivated (1 mL)           | RUO            |
| 0810141CFHI           | Coxsackievirus Type A2 (Strain: Fletwood) Culture Fluid, Heat Inactivated (1 mL)           | RUO            |
| 0810142CFHI           | Coxsackievirus Type A4 (Strain: Highpoint) Culture Fluid, Heat Inactivated (1 mL)          | RUO            |
| 0810143CFHI           | Coxsackievirus Type A8 (Strain: Donovan) Culture Fluid, Heat Inactivated (1 mL)            | RUO            |
| 0810017CFHI           | Coxsackievirus Type A9 Culture Fluid, Heat Inactivated (1 mL)                              | RUO            |
| 0810106CFHI           | Coxsackievirus Type A10 (2008 Isolate) Culture Fluid, Heat Inactivated (1 mL)              | RUO            |
| 0810144CFHI           | Coxsackievirus Type A15 (Strain: G-19) Culture Fluid, Heat Inactivated (1 mL)              | RUO            |
| 0810107CFHI           | Coxsackievirus Type A16 (1997 Isolate) Culture Fluid, Heat Inactivated (1 mL)              | RUO            |
| 0810289CFHI           | Coxsackievirus Type A16 (2004 Isolate) Culture Fluid, Heat Inactivated (1 mL)              | RUO            |
| 0810235CFHI           | Coxsackievirus Type A21 (2005 Isolate) Culture Fluid, Heat Inactivated (1 mL)              | RUO            |
| 0810074CFHI           | Coxsackievirus Type B3 Culture Fluid, Heat Inactivated (1 mL)                              | RUO            |
| 0810075CFHI           | Coxsackievirus Type B4 Culture Fluid, Heat Inactivated (1 mL)                              | RUO            |
| 0810019CFHI           | Coxsackievirus Type B5 Culture Fluid, Heat Inactivated (1 mL)                              | RUO            |
| <b>Echovirus</b>      |                                                                                            |                |
| 0810076CFHI           | Echovirus Type 6 Culture Fluid, Heat Inactivated (1 mL)                                    | RUO            |
| 0810077CFHI           | Echovirus Type 9 Culture Fluid, Heat Inactivated (1 mL)                                    | RUO            |
| 0810023CFHI           | Echovirus Type 11 Culture Fluid, Heat Inactivated (1 mL)                                   | RUO            |
| 0810502CFHI           | Echovirus Type 14 (Strain: H08330 539) Culture Fluid, Heat Inactivated (1 mL)              | RUO            |
| 0810503CFHI           | Echovirus Type 16 (Strain: Harrington) Culture Fluid, Heat Inactivated (1 mL)              | RUO            |
| 0810078CFHI           | Echovirus Type 30 Culture Fluid, Heat Inactivated (1 mL)                                   | RUO            |
| <b>Enterovirus</b>    |                                                                                            |                |
| 0810543CFHI           | Enterovirus B111 (2015 Isolate) Culture Fluid, Heat Inactivated (1 mL)                     | RUO            |
| 0810237CFHI           | Enterovirus Type 68 (2007 Isolate) Culture Fluid, Heat Inactivated (1 mL)                  | RUO            |
| 0810300CFHI           | Enterovirus Type 68 (2014 Isolate) Culture Fluid, Heat Inactivated (1 mL)                  | RUO            |
| 0810302CFHI           | Enterovirus Type 68 Major Group (09/2014 Isolate 2) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810303CFHI           | Enterovirus Type 68 Major Group (09/2014 Isolate 3) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810304CFHI           | Enterovirus Type 68 Major Group (09/2014 Isolate 4) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810305CFHI           | Enterovirus Type 68 Minor Group (09/2014 Isolate 1) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810306CFHI           | Enterovirus Type 68 Minor Group (10/2014 Isolate 2) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810307CFHI           | Enterovirus Type 68 Minor Group (09/2014 Isolate 3) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810301CFHI           | Enterovirus Type 68 Odd Group (10/2012 Isolate 1) Culture Fluid, Heat Inactivated (1 mL)   | RUO            |
| 0810236CFHI           | Enterovirus Type 71 (2003 Isolate) Culture Fluid, Heat Inactivated (1 mL)                  | RUO            |

\*RUO = Research Use Only; **CCL** = CCL license is required for export.

| Item Number                         | Description                                                                                           | Use* |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|------|
| <b>Hepatitis</b>                    |                                                                                                       |      |
| 0810042CFHI                         | Mouse Hepatitis Virus Culture Fluid, Heat Inactivated (1 mL)                                          | RUO  |
| <b>Herpes Virus Family</b>          |                                                                                                       |      |
| 0810183CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 2) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810184CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 3) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810185CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 4) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810186CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 5) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810187CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 6) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810188CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 7) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810189CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 8) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810190CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 9) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810191CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 10) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810192CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 11) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810193CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 12) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810194CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 13) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810195CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 14) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810196CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 15) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810197CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 16) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810199CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 18) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810200CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 19) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810201CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 20) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810202CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Isolate: 21) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810005CFHI                         | Herpes Simplex Virus Type 1 (HSV-1) (Strain: MacIntyre) Culture Fluid, Heat Inactivated (1 mL)        | RUO  |
| 0810203CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 2) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810204CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 3) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810205CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 4) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810206CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 5) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810207CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 6) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810208CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 7) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810209CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 8) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810210CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 9) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810211CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 10) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810212CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 11) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810213CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 12) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810214CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 13) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810215CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 14) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810216CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 15) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810217CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 16) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810218CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 17) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810219CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 18) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810220CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 19) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810221CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 20) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810222CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Isolate: 21) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810006CFHI                         | Herpes Simplex Virus Type 2 (HSV-2) (Strain: MS) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810529CFHI                         | Human Herpes Virus Type 6A (Strain: GS) Culture Fluid, Heat Inactivated (1 mL)                        | RUO  |
| 0810072CFHI                         | Human Herpes Virus Type 6B (Strain: Z29) Culture Fluid, Heat Inactivated (1 mL)                       | RUO  |
| 0810071CFHI                         | Human Herpes Virus Type 7 (Strain: SB) Culture Fluid, Heat Inactivated (1 mL)                         | RUO  |
| 0810104CFHI                         | Human Herpes Virus Type 8 Culture Fluid, Heat Inactivated (1 mL)                                      | RUO  |
| 0810003CFHI                         | Cytomegalovirus (Strain: AD-169) Culture Fluid, Heat Inactivated (1 mL)                               | RUO  |
| 0810500CFHI                         | Cytomegalovirus (Strain: Merlin) Culture Fluid, Heat Inactivated (1 mL)                               | RUO  |
| 0810499CFHI                         | Cytomegalovirus (Strain: Towne) Culture Fluid, Heat Inactivated (1 mL)                                | RUO  |
| 0810008CFHI                         | Epstein-Barr Virus (Strain: B95-8) Culture Fluid, Heat Inactivated (1 mL)                             | RUO  |
| 0810172CFHI                         | Varicella Zoster Virus (Isolate: A) Culture Fluid, Heat Inactivated (1 mL)                            | RUO  |
| 0810173CFHI                         | Varicella Zoster Virus (Isolate: B) Culture Fluid, Heat Inactivated (1 mL)                            | RUO  |
| 0810175CFHI                         | Varicella Zoster Virus (Isolate: D) Culture Fluid, Heat Inactivated (1 mL)                            | RUO  |
| 0810167CFHI                         | Varicella Zoster Virus (Strain: 82) Culture Fluid, Heat Inactivated (1 mL)                            | RUO  |
| 0810168CFHI                         | Varicella Zoster Virus (Strain: 275) Culture Fluid, Heat Inactivated (1 mL)                           | RUO  |
| 0810169CFHI                         | Varicella Zoster Virus (Strain: 1700) Culture Fluid, Heat Inactivated (1 mL)                          | RUO  |
| 0810170CFHI                         | Varicella Zoster Virus (Strain: 9939) Culture Fluid, Heat Inactivated (1 mL)                          | RUO  |
| 0810171CFHI                         | Varicella Zoster Virus (Strain: Ellen) Culture Fluid, Heat Inactivated (1 mL)                         | RUO  |
| <b>Human Metapneumovirus (hMPV)</b> |                                                                                                       |      |
| 0810156CFHI                         | Human Metapneumovirus (hMPV-3) 03 Type B1 (Strain: Peru2-2002) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810157CFHI                         | Human Metapneumovirus (hMPV-4) 04 Type B2 (Strain: Peru1-2002) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810158CFHI                         | Human Metapneumovirus (hMPV-5) 05 Type B1 (Strain: Peru3-2003) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810159CFHI                         | Human Metapneumovirus (hMPV-8) 08 Type B2 (Strain: Peru1-2002) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810160CFHI                         | Human Metapneumovirus (hMPV-9) 09 Type A1 (Strain: IA3-2002) Culture Fluid, Heat Inactivated (1 mL)   | RUO  |
| 0810161CFHI                         | Human Metapneumovirus (hMPV-16) 16 Type A1 (Strain: IA10-2003) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810162CFHI                         | Human Metapneumovirus (hMPV-18) 18 Type B2 (Strain: IA18-2003) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810164CFHI                         | Human Metapneumovirus (hMPV-27) 27 Type A2 (Strain: IA27-2004) Culture Fluid, Heat Inactivated (1 mL) | RUO  |

| Item Number            | Description                                                                              | Use* |
|------------------------|------------------------------------------------------------------------------------------|------|
| <b>Influenza Virus</b> |                                                                                          |      |
| 0810244CFHI            | Influenza A H1N1 (Brisbane/59/07) Culture Fluid, Heat Inactivated (1 mL)                 | RUO  |
| 0810610CFHI            | Influenza A H1N1 (Guangdong-Maonan/SWL-1536/19) Culture Fluid, Heat Inactivated (1 mL)   | RUO  |
| 0810036CFHI            | Influenza A H1N1 (New Cal/20/99) Culture Fluid, Heat Inactivated (1 mL)                  | RUO  |
| 0810245CFHI            | Influenza A H1N1 (PR/8/34) Culture Fluid, Heat Inactivated (1 mL)                        | RUO  |
| 0810246CFHI            | Influenza A H1N1 (Singapore/63/04) Culture Fluid, Heat Inactivated (1 mL)                | RUO  |
| 0810036CFNHI           | Influenza A H1N1 (Solomon Islands/03/06) Culture Fluid, Heat Inactivated (1 mL)          | RUO  |
| 0810247CFHI            | Influenza A H1N1 (Taiwan/42/06) Culture Fluid, Heat Inactivated (1 mL)                   | RUO  |
| 0810663CFHI            | Influenza A H1N1 (Victoria/2570/19) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810684CFHI            | Influenza A H1N1 (Victoria/4897/22) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810685CFHI            | Influenza A H1N1 (Wisconsin/67/22) Culture Fluid, Heat Inactivated (1 mL)                | RUO  |
| 0810593CFHI            | Influenza A H1N1 (WSN/33) Culture Fluid, Heat Inactivated (1 mL)                         | RUO  |
| 0810260CFHI            | Influenza A H1N1 Oseltamivir-R (Isolate 1) Culture Fluid, Heat Inactivated (1 mL)        | RUO  |
| 0810261CFHI            | Influenza A H1N1 Oseltamivir-R (Isolate 2) Culture Fluid, Heat Inactivated (1 mL)        | RUO  |
| 0810262CFHI            | Influenza A H1N1 Oseltamivir-R (Isolate 3) Culture Fluid, Heat Inactivated (1 mL)        | RUO  |
| 0810585CFHI            | Influenza A H1N1pdm (Brisbane/2/18) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810165CFHI            | Influenza A H1N1pdm (California/07/09) Culture Fluid, Heat Inactivated 1 mL              | RUO  |
| 0810109CFJHI           | Influenza A H1N1pdm (Canada/6294/09) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810166CFHI            | Influenza A H1N1pdm (Mexico/4108/09) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810538CFHI            | Influenza A H1N1pdm (Michigan/45/15) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810519CFHI            | Influenza A H1N1pdm (New York/18/09) Culture Fluid, Heat Inactivated (1mL)               | RUO  |
| 0810248CFHI            | Influenza A H1N1pdm (NY/01/09) Culture Fluid, Heat Inactivated (1 mL)                    | RUO  |
| 0810109CFNHI           | Influenza A H1N1pdm (NY/02/09) Culture Fluid, Heat Inactivated (1 mL)                    | RUO  |
| 0810249CFHI            | Influenza A H1N1pdm (NY/03/09) Culture Fluid, Heat Inactivated (1 mL)                    | RUO  |
| 0810311CFNHI           | Influenza A H1N1pdm Oseltamivir-R (Isolate 2) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |
| 0810138CFHI            | Influenza A H3N2 (Brisbane/10/07) Culture Fluid, Heat Inactivated (1 mL)                 | RUO  |
| 0810506CFHI            | Influenza A H3N2 (California/7/04) Culture Fluid, Heat Inactivated (1 mL)                | RUO  |
| 0810609CFHI            | Influenza A H3N2 (Hong Kong/2671/19) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810526CFHI            | Influenza A H3N2 (Hong Kong/4801/14) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810250CFHI            | Influenza A H3N2 (Hong Kong/8/68) Culture Fluid, Heat Inactivated (1 mL)                 | RUO  |
| 0810586CFHI            | Influenza A H3N2 (Kansas/14/17) Culture Fluid, Heat Inactivated (1 mL)                   | RUO  |
| 0810568CFHI            | Influenza A H3N2 (Kumamoto/102/02) Culture Fluid, Heat Inactivated (1 mL)                | RUO  |
| 0810514CFHI            | Influenza A H3N2 (Norway/466/14) Culture Fluid, Heat Inactivated (1 mL)                  | RUO  |
| 0810251CFHI            | Influenza A H3N2 (Perth/16/09) Culture Fluid, Heat Inactivated (1 mL)                    | RUO  |
| 0810574CFHI            | Influenza A H3N2 (Singapore/INFIMH-16-0019/16) Culture Fluid, Heat Inactivated (1 mL)    | RUO  |
| 0810512CFHI            | Influenza A H3N2 (South Australia/55/14) Culture Fluid, Heat Inactivated (1 mL)          | RUO  |
| 0810513CFHI            | Influenza A H3N2 (Stockholm/6/14) Culture Fluid, Heat Inactivated (1 mL)                 | RUO  |
| 0810511CFHI            | Influenza A H3N2 (Switzerland/9715293/13) Culture Fluid, Heat Inactivated (1 mL)         | RUO  |
| 0810238CFHI            | Influenza A H3N2 (Texas/50/12) Culture Fluid, Heat Inactivated (1 mL)                    | RUO  |
| 0810240CFHI            | Influenza A H3N2 (Victoria/361/11) Culture Fluid, Heat Inactivated (1 mL)                | RUO  |
| 0810252CFHI            | Influenza A H3N2 (Wisconsin/67/05) Culture Fluid, Heat Inactivated (1 mL)                | RUO  |
| 0810572CFHI            | Influenza B Victoria Lineage (Alabama/02/17) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810654CFHI            | Influenza B Victoria Lineage (Austria/1359417/21) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810253CFHI            | Influenza B Victoria Lineage (Brisbane/33/08) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |
| 0810528CFHI            | Influenza B Victoria Lineage (Brisbane/46/15) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |
| 0810573CFHI            | Influenza B Victoria Lineage (Colorado/6/17) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810037CFHI            | Influenza B Victoria Lineage (Florida/02/06) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810569CFHI            | Influenza B Victoria Lineage (Hawaii/10/01) Culture Fluid, Heat Inactivated (1 mL)       | RUO  |
| 0810258CFHI            | Influenza B Victoria Lineage (Malaysia/2506/04) Culture Fluid, Heat Inactivated (1 mL)   | RUO  |
| 0810527CFHI            | Influenza B Victoria Lineage (Texas/2/13) Culture Fluid, Heat Inactivated (1 mL)         | RUO  |
| 0810517CFHI            | Influenza B Victoria Lineage (Victoria/2/87) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810611CFHI            | Influenza B Victoria Lineage (Washington/02/19) Culture Fluid, Heat Inactivated (1 mL)   | RUO  |
| 0810507CFHI            | Influenza B Yamagata Lineage (Brisbane/3/07) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810510CFHI            | Influenza B Yamagata Lineage (Brisbane/9/14) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810508CFHI            | Influenza B Yamagata Lineage (Brisbane/36/12) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |
| 0810255CFHI            | Influenza B Yamagata Lineage (Florida/04/06) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810256CFHI            | Influenza B Yamagata Lineage (Florida/07/04) Culture Fluid, Heat Inactivated (1 mL)      | RUO  |
| 0810570CFHI            | Influenza B Yamagata Lineage (Guangdong/120/00) Culture Fluid, Heat Inactivated (1 mL)   | RUO  |
| 0810257CFHI            | Influenza B Yamagata Lineage (Lee/40) Culture Fluid, Heat Inactivated (1 mL)             | RUO  |
| 0810239CFHI            | Influenza B Yamagata Lineage (Massachusetts/2/12) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810259CFHI            | Influenza B Yamagata Lineage (Panama/45/90) Culture Fluid, Heat Inactivated (1 mL)       | RUO  |
| 0810515CFHI            | Influenza B Yamagata Lineage (Phuket/3073/13) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |
| 0810242CFHI            | Influenza B Yamagata Lineage (Texas/6/11) Culture Fluid, Heat Inactivated (1 mL)         | RUO  |
| 0810516CFHI            | Influenza B Yamagata Lineage (Utah/9/14) Culture Fluid, Heat Inactivated (1 mL)          | RUO  |
| 0810571CFHI            | Influenza B Yamagata Lineage (Victoria/504/00) Culture Fluid, Heat Inactivated (1 mL)    | RUO  |
| 0810241CFHI            | Influenza B Yamagata Lineage (Wisconsin/1/10) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |
| 0810518CFHI            | Influenza B Yamagata Lineage (Yamagata/16/88) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |

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| Item Number                              | Description                                                                                             | Use*           |
|------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------|
| <b>Measles, Mumps, Rubella (MMR)</b>     |                                                                                                         |                |
| 0810025CFHI                              | Measles Virus (Strain: Edmonston) Culture Fluid, Heat Inactivated (1 mL)                                | RUO            |
| 0810542CFHI                              | Measles Virus Genotype B3 (Isolate: 2006) Culture Fluid, Heat Inactivated (1 mL)                        | RUO            |
| 0810079CFHI                              | Mumps Virus (Isolate: 1) Culture Fluid, Heat Inactivated (1 mL)                                         | RUO            |
| 0810176CFHI                              | Mumps Virus (Isolate: 2) Culture Fluid, Heat Inactivated (1 mL)                                         | RUO            |
| 0810544CFHI                              | Mumps Virus Genotype G-193 (Isolate: 2017) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810545CFHI                              | Mumps Virus Genotype G-198 (Isolate: 2017) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810546CFHI                              | Mumps Virus Genotype G-799 (Isolate: 2016) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810048CFHI                              | Rubella Virus Culture Fluid, Heat Inactivated (1 mL)                                                    | RUO            |
| <b>Norovirus</b>                         |                                                                                                         |                |
| 0810086CFHI                              | Norovirus Group I (Recombinant) Culture Fluid, Heat Inactivated (1 mL)                                  | RUO            |
| 0810087CFHI                              | Norovirus Group II (Recombinant) Culture Fluid, Heat Inactivated (1 mL)                                 | RUO            |
| <b>Parainfluenza Virus</b>               |                                                                                                         |                |
| 0810014CFHI                              | Parainfluenza Virus Type 1 Culture Fluid, Heat Inactivated (1 mL)                                       | RUO            |
| 0810015CFHI                              | Parainfluenza Virus Type 2 Culture Fluid, Heat Inactivated (1 mL)                                       | RUO            |
| 0810504CFHI                              | Parainfluenza Virus Type 2 (Public Health England) Culture Fluid, Heat Inactivated (1 mL)               | RUO            |
| 0810016CFHI                              | Parainfluenza Virus Type 3 Culture Fluid, Heat Inactivated (1 mL)                                       | RUO            |
| 0810370CFHI                              | Parainfluenza Virus Type 3 (4/2015 Isolate 4) Culture Fluid, Heat Inactivated (1 mL)                    | RUO            |
| 0810177CFHI                              | Parainfluenza Virus Type 3 (Isolate 2) Culture Fluid, Heat Inactivated (1 mL)                           | RUO            |
| 0810060CFHI                              | Parainfluenza Virus Type 4A Culture Fluid, Heat Inactivated (1 mL)                                      | RUO            |
| 0810060BCFHI                             | Parainfluenza Virus Type 4B Culture Fluid, Heat Inactivated (1 mL)                                      | RUO            |
| <b>Parechovirus</b>                      |                                                                                                         |                |
| 0810145CFHI                              | Parechovirus Type 1 (Strain: Harris) Culture Fluid, Heat Inactivated (1 mL)                             | RUO            |
| 0810146CFHI                              | Parechovirus Type 2 (Strain: Williamson) Culture Fluid, Heat Inactivated (1 mL)                         | RUO            |
| 0810147CFHI                              | Parechovirus Type 3 Culture Fluid, Heat Inactivated (1 mL)                                              | RUO            |
| 0810148CFHI                              | Parechovirus Type 4 Culture Fluid, Heat Inactivated (1 mL)                                              | RUO            |
| 0810149CFHI                              | Parechovirus Type 5 Culture Fluid, Heat Inactivated (1 mL)                                              | RUO            |
| 0810150CFHI                              | Parechovirus Type 6 Culture Fluid, Heat Inactivated (1 mL)                                              | RUO            |
| <b>Orthopox Viruses</b>                  |                                                                                                         |                |
| 0810657CFHI                              | Mpox Virus (Isolate: USA/MA001/2022) Culture Fluid, Heat Inactivated (1 mL)                             | <b>CCL</b> RUO |
| 0810310CFHI                              | Vaccinia Virus (Vaccine Strain) Culture Fluid, Heat Inactivated (1 mL)                                  | RUO            |
| <b>Retroviruses</b>                      |                                                                                                         |                |
| 0810028CFHI                              | HIV Type 1 (HIV-1) (Strain: BaL) Culture Fluid, Heat Inactivated (1 mL)                                 | RUO            |
| 0810032CFHI                              | HIV Type 1 (HIV-1) (Strain: IIIB) Culture Fluid, Heat Inactivated (1 mL)                                | RUO            |
| 0810027CFHI                              | HIV Type 1 (HIV-1) (Strain: Mn) Culture Fluid, Heat Inactivated (1 mL)                                  | RUO            |
| 0810029CFHI                              | HIV Type 2 (HIV-2) (Strain: NIH-Z) Culture Fluid, Heat Inactivated (1 mL)                               | RUO            |
| 0801033CFHI                              | Human T-Lymphotropic Virus Type I (HTLV-I) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810039CFHI                              | Human T-Lymphotropic Virus Type II (HTLV-II) Culture Fluid, Heat Inactivated (1 mL)                     | RUO            |
| 0810011CFHI                              | Simian Immunodeficiency Virus (Strain: Mac 251) Culture Fluid, Heat Inactivated (1 mL)                  | RUO            |
| <b>Rhinovirus</b>                        |                                                                                                         |                |
| 0810012CFNHI                             | Rhinovirus Type 1A Culture Fluid, Heat Inactivated (1 mL)                                               | RUO            |
| 0810283CFHI                              | Rhinovirus A2 Culture Fluid, Heat Inactivated (1 mL)                                                    | RUO            |
| 0810285CFHI                              | Rhinovirus A16 Culture Fluid, Heat Inactivated (1 mL)                                                   | RUO            |
| 0810288CFHI                              | Rhinovirus A80 Culture Fluid, Heat Inactivated (1 mL)                                                   | RUO            |
| 0810284CFHI                              | Rhinovirus B14 Culture Fluid, Heat Inactivated (1 mL)                                                   | RUO            |
| 0810286CFHI                              | Rhinovirus B42 Culture Fluid, Heat Inactivated (1 mL)                                                   | RUO            |
| 0810287CFHI                              | Rhinovirus B70 Culture Fluid, Heat Inactivated (1 mL)                                                   | RUO            |
| 0810383CFHI                              | Rhinovirus (Isolate: 10/2014 #1) Culture Fluid, Heat Inactivated (1 mL)                                 | RUO            |
| <b>Respiratory Syncytial Virus (RSV)</b> |                                                                                                         |                |
| 0810040ACFHI                             | Respiratory Syncytial Virus Type A (RSV-A) (2006 Isolate) Culture Fluid, Heat Inactivated (1 mL)        | RUO            |
| 0810462CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) (12/2014 Isolate 12) Culture Fluid, Heat Inactivated (1 mL)  | RUO            |
| 0810452CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) (12/2014 Isolate 2) Culture Fluid, Heat Inactivated (1 mL)   | RUO            |
| 0810474CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) (2/2015 Isolate 2) Culture Fluid, Heat Inactivated (1 mL)    | RUO            |
| 0810475CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) (2/2015 Isolate 3) Culture Fluid, Heat Inactivated (1 mL)    | RUO            |
| 0810482CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) (3/2015 Isolate 3) Culture Fluid, Heat Inactivated (1 mL)    | RUO            |
| 0810481CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) (4/2015 Isolate 1) Culture Fluid, Heat Inactivated (1 mL)    | RUO            |
| 0810299CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) 2013 Isolate Culture Fluid, Heat Inactivated (1 mL)          | RUO            |
| 0810290CFHI                              | Respiratory Syncytial Virus Type A (RSV-A) 2014 Isolate 341 Culture Fluid, Heat Inactivated (1 mL)      | RUO            |
| 0810278CFHI                              | Respiratory Syncytial Virus Type A (Strain: Long) Culture Fluid, Heat Inactivated (1 mL)                | RUO            |
| 0810279CFHI                              | Respiratory Syncytial Virus Type A (Strain: S2) Culture Fluid, Heat Inactivated (1 mL)                  | RUO            |
| 0810040CFHI                              | Respiratory Syncytial Virus Type B (RSV-B) (Strain: CH93(18-18)) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810451CFHI                              | Respiratory Syncytial Virus Type B (RSV-B) (11/2014 Isolate 2) Culture Fluid, Heat Inactivated (1 mL)   | RUO            |
| 0810450CFHI                              | Respiratory Syncytial Virus Type B (RSV-B) (12/2014 Isolate 1) Culture Fluid, Heat Inactivated (1 mL)   | RUO            |
| 0810479CFHI                              | Respiratory Syncytial Virus Type B (RSV-B) (3/2015 Isolate 1) Culture Fluid, Heat Inactivated (1 mL)    | RUO            |
| 0810480CFHI                              | Respiratory Syncytial Virus Type B (RSV-B) (3/2015 Isolate 2) Culture Fluid, Heat Inactivated (1 mL)    | RUO            |
| <b>Rotavirus</b>                         |                                                                                                         |                |
| 0810280CFHI                              | Rotavirus Group A (Strain: 69M) Culture Fluid, Heat Inactivated (1 mL)                                  | RUO            |
| 0810530CFHI                              | Rotavirus Group A (Strain: RRV) Culture Fluid, Heat Inactivated (1 mL)                                  | RUO            |
| 0810281CFHI                              | Rotavirus Group A (Strain: Va70) Culture Fluid, Heat Inactivated (1 mL)                                 | RUO            |
| 0810041CFHI                              | Rotavirus Group A (Strain: Wa) Culture Fluid, Heat Inactivated (1 mL)                                   | RUO            |

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| Item Number                                    | Description                                                                                                                      | Use* |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------|
| <b>SARS-Related Coronavirus 2 (SARS-CoV-2)</b> |                                                                                                                                  |      |
| 0810590CFHI                                    | SARS-CoV-2 (Isolate: Hong Kong/VM20001061/2020) Culture Fluid, Heat Inactivated (1 mL)                                           | RUO  |
| 0810589CFHI                                    | SARS-CoV-2 (Isolate: Italy-INMI1) Culture Fluid, Heat Inactivated (1 mL)                                                         | RUO  |
| 0810587CFHI                                    | SARS-CoV-2 (Isolate: USA-WA1/2020) Culture Fluid, Heat Inactivated (1 mL)                                                        | RUO  |
| 0810619CFHI                                    | SARS-CoV-2 Iso1 Lin B.1.526_2021 Iota (NY-Wadsworth-21025952-01/2021) Culture Fluid, Heat Inactivated (1 mL)                     | RUO  |
| 0810620CFHI                                    | SARS-CoV-2 Iso2 Lin B.1.526_2021 Iota (NY-Wadsworth-21018781-01/2021) Culture Fluid, Heat Inactivated (1 mL)                     | RUO  |
| 0810641CFHI                                    | SARS-CoV-2 Lineage AY.1; Delta Variant (Isolate: USA/CA-VRLC086/2021) Culture Fluid, Heat Inactivated (1 mL)                     | RUO  |
| 0810644CFHI                                    | SARS-CoV-2 Lineage B (Isolate: Germany/BavPat1/2020) Culture Fluid, Heat Inactivated (1 mL)                                      | RUO  |
| 0810637CFHI                                    | SARS-CoV-2 Lineage B.1.1.7; Alpha Variant (Isolate: Wadsworth-21070720-01/2021) Culture Fluid, Heat Inactivated (1 mL)           | RUO  |
| 0810645CFHI                                    | SARS-CoV-2 Lineage B.1.1.298 (Isolate: Denmark/DCGC-3024/2020) Culture Fluid, Heat Inactivated (1 mL)                            | RUO  |
| 0810643BCFHI                                   | SARS-CoV-2 Lineage B.1.1.529, BA.2; Omicron Var. (USA/CO-CDPHE-2102544747/2021) Culture Fluid, Heat Inactivated (1 mL)           | RUO  |
| 0810642CFHI                                    | SARS-CoV-2 Lineage B.1.1.529; Omicron Variant Culture Fluid, Heat Inactivated (1 mL)                                             | RUO  |
| 0610636CFHI                                    | SARS-CoV-2 Lineage B.1.427; Epsilon Variant (Isolate: Wadsworth-21032515-01/2021) Culture Fluid, Heat Inactivated (1 mL)         | RUO  |
| 0810636CFHI                                    | SARS-CoV-2 Lineage B.1.427; Epsilon (USA/NY-Wadsworth-21032515-01/2021) Culture Fluid, Heat Inactivated (1 mL)                   | RUO  |
| 0810633CFHI                                    | SARS-CoV-2 Lineage B.1.429; Epsilon Variant (Isolate: Wadsworth-21050622-01/2021) Culture Fluid, Heat Inactivated (1 mL)         | RUO  |
| 0810634CFHI                                    | SARS-CoV-2 Lineage B.1.525; Eta Variant (Isolate: Wadsworth-21046855-01/2021) Culture Fluid, Heat Inactivated (1 mL)             | RUO  |
| 0810622CFHI                                    | SARS-CoV-2 Lineage B.1.595_2020 (NY-Wadsworth-33126-01/2020) Culture Fluid, Heat Inactivated (1 mL)                              | RUO  |
| 0810623CFHI                                    | SARS-CoV-2 Lineage B.1.617.1 Kappa Variant (USA/CA-Stanford-15_S02/2021) Culture Fluid, Heat Inactivated (1 mL)                  | RUO  |
| 0810635CFHI                                    | SARS-CoV-2 Lineage B.1.617.2; Delta (USA/NY-Wadsworth-21063531-01/2021) Culture Fluid, Heat Inactivated (1 mL)                   | RUO  |
| 0610635CFHI                                    | SARS-CoV-2 Lineage B.1.617.2; Delta Variant (Isolate: Wadsworth-21063531-01/2021) Culture Fluid, Heat Inactivated (1 mL)         | RUO  |
| 0810624CFHI                                    | SARS-CoV-2 Lineage B.1.617.2; Delta Variant (USA/PHC658/2021) Culture Fluid, Heat Inactivated (1 mL)                             | RUO  |
| 0810621CFHI                                    | SARS-CoV-2 Lineage B.1_2020 (NY-Wadsworth-103677-01/2020) Culture Fluid, Heat Inactivated (1 mL)                                 | RUO  |
| 0810643CFHI                                    | SARS-CoV-2 Lineage BA.2.3; Omicron Variant Culture Fluid, Heat Inactivated (1 mL)                                                | RUO  |
| 0810668CFHI                                    | SARS-CoV-2 Lineage BA.2.12.1; Omicron Var. (USA/NY-Wadsworth-22014351-01/2022) Culture Fluid, Heat Inactivated (1 mL)            | RUO  |
| 0810669CFHI                                    | SARS-CoV-2 Lineage BA.2.65; Omicron Variant (Variant: USA/NY-Wadsworth-22023474-01/2022) Culture Fluid, Heat Inactivated (1 mL)  | RUO  |
| 0810671CFHI                                    | SARS-CoV-2 Lineage BA.2.75.5; Omicron Var. (USA/NY-Wadsworth-22037154-01/2022) Culture Fluid, Heat Inactivated (1 mL)            | RUO  |
| 0810659CFHI                                    | SARS-CoV-2 Lineage BA.4; Omicron Variant (Variant: USA/MD-HP30386/2022) Culture Fluid, Heat Inactivated (1 mL)                   | RUO  |
| 0810660CFHI                                    | SARS-CoV-2 Lineage BA.4.6; Omicron Var. (USA/MD-HP35538/2022) Culture Fluid, Heat Inactivated (1 mL)                             | RUO  |
| 0810658CFHI                                    | SARS-CoV-2 Lineage BA.5; Omicron Var. (USA/COR-22-063113/2022) Culture Fluid, Heat Inactivated (1 mL)                            | RUO  |
| 0810675CFHI                                    | SARS-CoV-2 Lineage BA.5.2.6; Omicron Variant (Isolate: USA/NY-Wadsworth-22047876-01/2022) Culture Fluid, Heat Inactivated (1 mL) | RUO  |
| 0810670CFHI                                    | SARS-CoV-2 Lineage BA.5.5; Omicron Var. (USA/NY-Wadsworth-22023478-01/2022) Culture Fluid, Heat Inactivated (1 mL)               | RUO  |
| 0810667CFHI                                    | SARS-CoV-2 Lineage BF.5; Omicron Var. (USA/MD-HP34985/2022) Culture Fluid, Heat Inactivated (1 mL)                               | RUO  |
| 0810672CFHI                                    | SARS-CoV-2 Lineage BF.7; Omicron Var. (USA/NY-Wadsworth-22042128-01/2022) Culture Fluid, Heat Inactivated (1 mL)                 | RUO  |
| 0810676CFHI                                    | SARS-CoV-2 Lineage BQ.1; Omicron Var. (USA/NY-Wadsworth-22050462-01/2022) Culture Fluid, Heat Inactivated (1 mL)                 | RUO  |
| 0810666CFHI                                    | SARS-CoV-2 Lineage BQ.1.1; Omicron Var. (USA/MD-HP38861/2022) Culture Fluid, Heat Inactivated (1 mL)                             | RUO  |
| 0810674CFHI                                    | SARS-CoV-2 Lineage BQ.1.3; Omicron Variant (Isolate: USA/NY-Wadsworth-22047869-01/2022) Culture Fluid, Heat Inactivated (1 mL)   | RUO  |
| 0810677CFHI                                    | SARS-CoV-2 Lineage BQ.1.16; Omicron Variant (Isolate: USA/NY-Wadsworth-22050865-01/2022) Culture Fluid, Heat Inactivated (1 mL)  | RUO  |
| 0810640CFHI                                    | SARS-CoV-2 Lineage C.37; Lambda Variant (Peru/un-CDC-2-4069945/2021) Culture Fluid, Heat Inactivated (1 mL)                      | RUO  |
| 0810673CFHI                                    | SARS-CoV-2 Lineage CA.1; Omicron Variant (Isolate: USA/NY-Wadsworth-22044072-01/2022) Culture Fluid, Heat Inactivated (1 mL)     | RUO  |
| 0810689CFHI                                    | SARS-CoV-2 Lineage JN.1; Omicron Variant (USA/NY/PV96109/2023) Culture Fluid, Heat Inactivated (1 mL)                            | RUO  |
| 0810695CFHI                                    | SARS-CoV-2 Lineage JN.1.4; Omicron Variant (Isolate: USA/NY-Wadsworth-23068107-01/2023) Culture Fluid (Heat Inactivated) (1 mL)  | RUO  |
| 0810696CFHI                                    | SARS-CoV-2 Lineage JG.3; Omicron Variant (USA/NY-Wadsworth-23067147-01/2023) Culture Fluid, Heat Inactivated (1 mL)              | RUO  |
| 0810616CFHI                                    | SARS-CoV-2 Lineage P1; Gamma Variant (Japan/TY7-503/2021) Culture Fluid, Heat Inactivated (1 mL)                                 | RUO  |
| 0810617CFHI                                    | SARS-CoV-2 Lineage P1_2021; Gamma Variant (NY-Wadsworth-21033899-01/2021) Culture Fluid, Heat Inactivated (1 mL)                 | RUO  |
| 0810618CFHI                                    | SARS-CoV-2 Lineage P2_2021; Zeta Variant (NY-Wadsworth-21006055-01/2021) Culture Fluid, Heat Inactivated (1 mL)                  | RUO  |
| 0810665CFHI                                    | SARS-CoV-2 Lineage XBB; Omicron Var. (USA/CA-Stanford-109_S21/2022) Culture Fluid, Heat Inactivated (1 mL)                       | RUO  |
| 0810682CFHI                                    | SARS-CoV-2 Lineage XBB.1.5; Omicron Variant (Isolate: USA/MD-HP40900/2022) Culture Fluid, Heat Inactivated (1 mL)                | RUO  |
| 0810678CFHI                                    | SARS-CoV-2 Lineage XBB.1.5; Omicron Variant (Isolate: USA/NY-Wadsworth-22061020-01/2022) Culture Fluid, Heat Inactivated (1 mL)  | RUO  |
| 0810679CFHI                                    | SARS-CoV-2 Lineage XBB.1.5; Omicron Variant (Isolate: USA/NY-Wadsworth-22061022-01/2022) Culture Fluid, Heat Inactivated (1 mL)  | RUO  |
| 0810614CFHI                                    | SARS-CoV-2 Variant B.1.1.7 (Isolate: England/204820464/2020) Culture Fluid, Heat Inactivated (1 mL)                              | RUO  |
| 0810612CFHI                                    | SARS-CoV-2 Variant B.1.1.7 (Isolate: USA/CA_CDC_5574/2020) Culture Fluid, Heat Inactivated (1 mL)                                | RUO  |
| 0810613CFHI                                    | SARS-CoV-2 Variant B.1.351 (Isolate: South_Africa/KRISP-K005325/2020) Culture Fluid, Heat Inactivated (1 mL)                     | RUO  |

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| Item Number           | Description                                                                                   | Use*           |
|-----------------------|-----------------------------------------------------------------------------------------------|----------------|
| <b>Vector Viruses</b> |                                                                                               |                |
| 0810093CFHI           | Banji Virus Culture Fluid, Heat Inactivated (1 mL)                                            | RUO            |
| 0810105CFHI           | Chikunguya Virus (CHIKV) (Strain: R80422) Culture Fluid, Heat Inactivated (1 mL)              | <b>CCL</b> RUO |
| 0810088CFHI           | Dengue Virus Type 1 (Strain: Hawaii) Culture Fluid, Heat Inactivated (1 mL)                   | RUO            |
| 0810550CFHI           | Dengue Virus Type 1 (Strain: TC974) Culture Fluid, Heat Inactivated (1 mL)                    | RUO            |
| 0810089CFHI           | Dengue Virus Type 2 (Strain: New Guinea C) Culture Fluid, Heat Inactivated (1 mL)             | RUO            |
| 0810551CFHI           | Dengue Virus Type 2 (Strain: R062) Culture Fluid, Heat Inactivated (1 mL)                     | RUO            |
| 0810090CFHI           | Dengue Virus Type 3 (Strain: H87) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810553CFHI           | Dengue Virus Type 3 (Strain: TC999) Culture Fluid, Heat Inactivated (1 mL)                    | RUO            |
| 0810091CFHI           | Dengue Virus Type 4 (Strain: H241) Culture Fluid, Heat Inactivated (1 mL)                     | RUO            |
| 0810554CFHI           | Dengue Virus Type 4 (Strain: TC25) Culture Fluid, Heat Inactivated (1 mL)                     | RUO            |
| 0810555CFHI           | Dengue Virus Type 4 (Strain: TC1000) Culture Fluid, Heat Inactivated (1 mL)                   | RUO            |
| 0810576CFHI           | Heartland Virus (HRTV) (Strain: MO4) Culture Fluid, Heat Inactivated (1 mL)                   | RUO            |
| 0810094CFHI           | Ilheus Virus (ILHV) (Strain: Original) Culture Fluid, Heat Inactivated (1 mL)                 | RUO            |
| 0810535CFHI           | Mayaro Virus (Strain: D 218) Culture Fluid, Heat Inactivated (1 mL)                           | RUO            |
| 0810547CFHI           | Mayaro Virus (Strain: TC652) Culture Fluid, Heat Inactivated (1 mL)                           | RUO            |
| 0810536CFHI           | Mayaro Virus (Strain: TRVL 15537) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810537CFHI           | Mayaro Virus (Strain: TRVL 4675) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810151CFHI           | Powassan Virus (Strain: LB) Culture Fluid, Heat Inactivated (1 mL)                            | <b>CCL</b> RUO |
| 0810080CFHI           | St. Louis Encephalitis Virus (SLEV) (Strain: Parton) Culture Fluid, Heat Inactivated (1 mL)   | <b>CCL</b> RUO |
| 0810602CFHI           | Tick-Borne Encephalitis Virus (Strain: Neudorfl) Culture Fluid, Heat Inactivated (1 mL)       | RUO            |
| 0810603CFHI           | Tick-Borne Encephalitis Virus (Strain: Vaccine) Culture Fluid, Heat Inactivated (1 mL)        | RUO            |
| 0810697CFHI           | Usutu Virus (Isolate: ENT MP 1626) Culture Fluid, Heat Inactivated (1 mL)                     | RUO            |
| 0810698CFHI           | Usutu Virus (Isolate: SAAR 1776) Culture Fluid, Heat Inactivated (1 mL)                       | RUO            |
| 0810604CFHI           | Usutu Virus Culture Fluid, Heat Inactivated (1 mL)                                            | RUO            |
| 0810033CFHI           | West Nile Virus (WNV) (Strain: NY 2001-6263) Culture Fluid, Heat Inactivated (1 mL)           | RUO            |
| 0810082CFHI           | West Nile Virus (WNV) Lineage 2 (Strain: 1986) Culture Fluid, Heat Inactivated (1 mL)         | RUO            |
| 0810081CFHI           | West Nile Virus (WNV) Lineage 2 (Strain: B-956 Uganda) Culture Fluid, Heat Inactivated (1 mL) | RUO            |
| 0810095CFHI           | Yellow Fever Virus (Strain: 17D) Culture Fluid, Heat Inactivated (1 mL)                       | <b>CCL</b> RUO |
| 0810524CFHI           | Yellow Fever Virus (Strain: 1899/81) Culture Fluid, Heat Inactivated (1 mL)                   | <b>CCL</b> RUO |
| 0810523CFHI           | Yellow Fever Virus (Strain: Asibi) Culture Fluid, Heat Inactivated (1 mL)                     | <b>CCL</b> RUO |
| 0810556CFHI           | Yellow Fever Virus (Strain: French Neurotropic) Culture Fluid, Heat Inactivated (1 mL)        | <b>CCL</b> RUO |
| 0810092CFHI           | Zika Virus Culture Fluid, Heat Inactivated (1 mL)                                             | RUO            |
| 0810522CFHI           | Zika Virus (Strain: DakArD 41662) Culture Fluid, Heat Inactivated (1 mL)                      | RUO            |
| 0810521CFHI           | Zika Virus (Strain: MR 766) Culture Fluid, Heat Inactivated (1 mL)                            | RUO            |
| 0810525CFHI           | Zika Virus (Strain: PRVABC59) Culture Fluid, Heat Inactivated (1 mL)                          | RUO            |

\*RUO = Research Use Only; **CCL** = CCL license is required for export.



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