

Material Safety Data Sheet (MSDS) – rAdenovirus Serotype 5

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1. PRODUCT NAMES

- rAV LifeAct-TagGFP2
 - rAV LifeAct-TagRFP

2. COMPOSITION AND INGREDIENTS INFORMATION

CAS #	Weight %	Classification	EINECS #
Water			
7732-18-5	> 50.0	-	231-791-2
Tris (hydroxymethyl) aminomethane			
77-86-1	< 1.0	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335 Xi, R36/37/38	201-064-4
Sodium chloride			
7647-14-5	5.9	-	231-598-3
Magnesium chloride			
7786-30-3	< 1.0	-	232-094-6
Glycerol			
56-81-5	10.0	-	200-289-5

For detailed information see the MSDS of the pure components listed in the table.

3. INFECTIOUS AGENT

Product identification: All pre-made LifeAct-Adenoviruses provided by ibidi.

Biological name: Human Adenovirus Serotype 5

Characteristics: Adenoviridae; non-enveloped, icosahedral virions, 75-80 nm diameter, double stranded, linear DNA genome. The recombinant viruses are based on human adenoviral backbone which is deleted in the essential E1 gene as well as the E3 gene. The viruses produced are replication-defective.

4. HEALTH HAZARD

Pathogenicity: Varies in clinical manifestation and severity; symptoms include fever, rhinitis, pharyngitis, cough and conjunctivitis. The risk from infection by defective recombinant adenoviral vectors depends both on the dose of virus and on the nature of the transgene. Adenovirus does not integrate into the host cell genome but can produce a strong immune response.

Host range: Humans and animals

Incubation period: from 1-10 days

Mode of transmission: In the laboratory, care must be taken to avoid spread of infectious material by aerosol, direct contact or accidental injection

Chemical listed as carcinogen or potential carcinogen: None

5. VIABILITY

Drug susceptibility: No specific antiviral available

Susceptibility to disinfectants: Susceptible to STERILLIUM® Virugard for 2 min.

Physical inactivation: Sensitive to heat; 20 min at 56°C is used to inactivate virus.

Survival outside host: Adenovirus type 5 survived from 3-8 weeks on environmental surfaces at room temperature.

6. MEDICAL

Surveillance: Monitor for symptoms; confirm by serological analysis

First aid/Treatment:

Contact: Immediately flush eyes and skin with plenty of water for at least 15 minutes. Call a physician.

Inhalation: N/A

Ingestion: Wash out mouth with water. Call a physician

Accidental injection: wash area with soap and water. Call a physician.

7. ACCIDENTAL RELEASE PROCEDURES

Pour Kohrsolin® FF over the leak(s) to get a final Kohrsolin® concentration of 0,25 % and wait for at least 15 minutes. Wipe up carefully. Hold for autoclave waste disposal and decontaminate work surfaces with STERILLIUM® Virugard for at least 5 min.

8. RECOMMENDED PRECAUTIONS

Follow the recommended NIH guidelines for all materials containing BSL-2 organisms. Observe all federal, state, and local environmental regulations.

Containment requirements: Biosafety level 2 practices and containment facilities for all activities involving the virus. This level consists of etiological agents considered to be of ordinary potential harm.

Protective clothing: Recombinant Adenovirus: Laboratory coat; gloves, safety glasses, optionally filter mask.

Other precautions: according to good laboratory practice like removing of worn coats before leaving the laboratory, hands are washed and disinfected after handling virus, etc.

9. HANDLING INFORMATION

Storage: Store in sealed containers that are appropriately labelled.

10. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Liquid.

Color: Colorless.

Odour: Odourless.

Change in condition:

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Self-igniting: No data available.

Danger of explosion: No data available.

Density at 20°C: No data available.

Solubility: Fully miscible in water.

pH-value at 20°C: No data available.

11. DISPOSAL CONSIDERATION

Waste must be disposed of in accordance with federal, state and local environmental control regulations. rAd is a regulated hazardous material. Decontaminate all wastes before disposal, e.g. by steam sterilization.

The above information is believed to be correct to the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and risk and ibidi or the distributor shall not be held liable for any damage resulting from handling or from contact with the above material.

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