Corporation obtaining approval, the name of its representative, and the address of its main office

Name: The University of Tokyo Hospital Applicant: Yuji Taketani, Director Address: 7-3-1 Hongo, Bunkyo-ku, Tokyo

Approved Type 1 Use Regulation

Name of the True of	Denliestien een ditienel meen himert hemen hemen einelen einer tene 1
Name of the Type of	
Living Modified	that expresses the <i>E.coli lacZ</i> gene, and has inactivation of the $\gamma 34.5$, <i>ICP6</i>
Organism	and $\alpha 47$ genes (G47 Δ)
Content of the Type	Used in clinical facilities for human therapy, including storage,
1 Use of Living	transportation, disposal and acts incidental to them.
Modified Organism	
Method of the Type	Address of the clinical facility: 7-3-1 Hongo, Bunkyo-ku, Tokyo
1 Use of Living	Name of the clinical facility: The University of Tokyo Hospital
Modified Organism	5 5 5 1
8	(1) The G47 Δ solution should be sealed in containers, transported to the
	clinical facility in a frozen state, and stored in a freezer in a laboratory
	at the facility.
	(2) Thawing, dilution and dispensing of the frozen $G47\Delta$ solution should
	be performed in a safety cabinet in a P2 level laboratory. The diluted
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	$G47\Delta$ should be stored in a refrigerator or a freezer in a P2 level
	laboratory. When the diluted $G47\Delta$ or its frozen form is transported
	to another area through an open area, it should be kept inside a
	double-sealed container.
	(3) When disposing of the $G47\Delta$ solution (including its dilution), it should
	be virally inactivated (by autoclaving or using disinfectant such as
	70% isopropanol, 70~90% ethanol, 0.2% sodium hypochlorite, 10%
	povidone iodine, 0.1~0.5% chlorhexidine gluconate, and 0.05~0.2%
	benzalkonium chloride; hereinafter the same shall apply), followed by
	disposal according to the medical waste management protocol defined
	by the University of Tokyo Hospital (hereinafter referred to as "the
	medical waste management protocol").
	(4) The diluted G47 Δ should be loaded to a designated syringe in a safety
	cabinet in a P2 level laboratory. The syringe should be doubly sealed,
	and transported to an operating room with appropriate containment
	measures (hereinafter referred to as "operating room").
	(5) The administration of $G47\Delta$ to a subject should be performed in an
	operating room by injecting the buffer containing $G47\Delta$ (hereinafter
	referred to as "the $G47\Delta$ dilution") into the tumor by stereotactic
	operation. The cannula is inserted through a hole with a diameter of
	approximately 12 mm in the skull of the subject, and the G47 Δ dilution
	is slowly and manually injected. After finishing the injection, the

cannula is kept in position for a few minutes, and then slowly removed. Removal of the cannula from the surface of the brain should be performed with particular care to prevent spilling or aerosolization of the G47 Δ dilution. After injection of the total planned volume of the G47 Δ dilution and the final removal of the cannula, the operation wound should be closed immediately. Additionally, double fabric sheets should be placed around the head during operation.

- (6) After completion of the administration of $G47\Delta$ to the subject, the wound should be disinfected, covered with gauze, and the head of the subject covered with a cap. The subject, wearing a mask for precaution against viral leakage, should be transferred from the operating room to a single room with appropriate containment measures and without a positive air pressure (hereinafter referred to as "single room").
- (7) Devices such as syringes and materials such as fabric sheets and gauze used in above mentioned (5) and (6) should be virally inactivated and disposed of according to the medical waste management protocol. If the viral inactivation is to be carried out in another area, the objects should be transported in a double-sealed container. The floor of the operating room should be cleaned by mopping using disinfectant. Note that the air in the operating room is refreshed every five minutes (twelve times an hour) by ventilation.
- (8) The subject should be cared in a single room until 72 hours after the $G47\Delta$ administration. When the subject leaves the operating room or the single room temporarily and enters an open area for examinations, etc., he/she should avoid blood sampling, urination, and evacuation if possible, and must wear a mask to prevent viral leakage.
- (9) The excreta of the subject during the single room care should be virally inactivated and then disposed of in accordance with the medical waste management protocol. The blood, urine and saliva sampled from the subject for research purposes should be disposed of in accordance with the handling of the G47 Δ solution.
- (10) During the single room care, devices that have been used invasively on the subject and those that have been in contact with the subject's excreta, etc., should be virally inactivated and then disposed of in accordance with the medical waste management protocol, or washed sufficiently. If the viral inactivation is to be carried out in another area, the objects should be transported in a double-sealed container.
- (11) Before releasing the subject from the single room care, it is necessary to confirm that $G47\Delta$ is not detected from the blood, saliva or urine of the subject. If $G47\Delta$ is detected, the subject should be continually cared in a single room until $G47\Delta$ is no longer detected.
- (12) If G47 Δ is detected from the blood, saliva or urine of the subject after the subject is released from the single room care, the subject should be transferred back to a single room immediately, and the measures described above from (8) to (10) should be taken.
- (13) When the subject's medical condition deteriorates after $G47\Delta$

administration and the subject requires an open brain surgery for the purpose other than $G47\Delta$ administration during the period $G47\Delta$ is presumed to persist in the brain lesion, the measures described above from (5) to (12) should be taken.