



**Date:** 08.09.2022

**Temozolomide treatment**

**LTK-RES-48-A-EN**  
Version: A

**This SOP replaces:** Date: None

**Reason for Change:** None

**Related SOPs:** SOP LTK-TRT-10 Intraperitoneal injection

**Indication of Use:** Therapy of brain cancer with chemotherapy

**Aim of SOP:** This protocol describes how to perform mouse treatment with standard-of-care chemotherapeutic temozolomide

**Distribution:**

1. Server
2. Animal facility
3. Group vom Berg

**Attachments:**

Generated  
at: 08.09.2022

Checked and approved  
at: 08.09.2022

by: Michal Beffinger

by: Johannes vom Berg



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**Responsible Persons:**

- 1) The researcher mentioned on the respective scoring sheet.
- 2) Any person with Module 1 and registered on animal permit.

**Method:** Preparation and injection of temozolomide chemotherapy to brain tumor-bearing mice.

**Principle of Method:** Preparation of chemotherapy solution and administration into mouse.

**Material to be used:**

PBS

DMSO

Temozolomide

**Storage of Material:**

Follow the individual data sheets for all chemicals used.

**Machine:**

Sonicator bath.

**Safety:**

1. General rules for working with sharp tools (scalpels, syringes, scissors) have to be followed.
2. Follow the rules of the animal house.
3. Follow the rules of working with toxic chemicals.



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**Method Description:**

1. Prepare 5% DMSO solution in PBS.
2. Dissolve temozolomide in 5% DMSO solution in PBS at 5 mg/ml.
3. Sonicate for 10 minutes to ensure that the solution is clear of particulates.
4. Within 4 h inject ip according to the "SOP-LTK-TRT-10 ip injection" at 50 mg/kg (1 mg/20 g mouse, 200 µl/20 g mouse). Control cohorts should be treated with 5% DMSO solution in PBS
5. Repeat injection daily for up to 5 days.

**Documentation:**

Server, appropriate project folder.

**Problem management:**

Report any adverse event to your supervisor