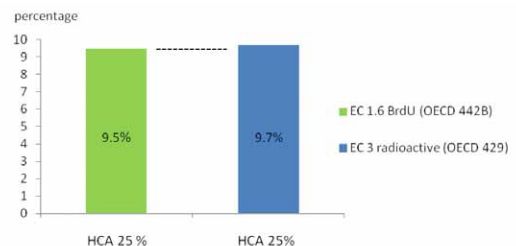
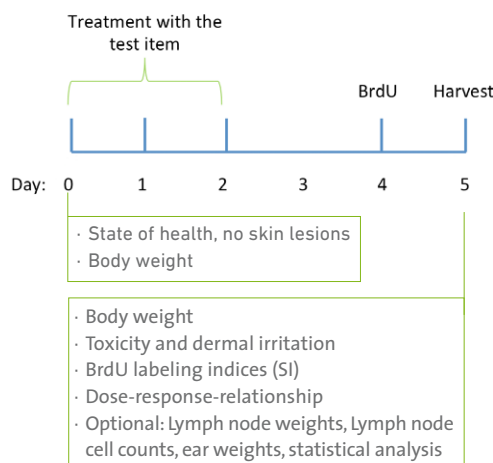


Skin sensitization: Local Lymph Node Assay: BrdU-ELISA

- OECD guideline 442B for the determination of skin sensitization in the mouse
- Measurement of lymphocyte proliferation without disposal of radioactivity by a non-radiolabelled 5-bromo-2-deoxyuridine (BrdU)
- BrdU is an analogue of thymidine and is similarly incorporated into the DNA of proliferating cells
- Unlike the traditional LLNA (429) the LLNA:BrdU-ELISA can be used for testing nickel compounds
- No use of an adjuvant required (compared to OECD 442A and 406)
- Reduction and refinement of animal use (compared to OECD 406)



The mean BrdU EC1.6 value of repeated dose-response-analysis of the positive control item 25 % hexyl cinnamic aldehyde (HCA) reached 9.5 %, which is very similar to the EC3 value 9.7 %, mentioned in the performance standards of the OECD429 guideline (BrdU-ELISA performed by Bioassay GmbH)