



<p><b>Naziv uređaja</b> Mračna komora sa sistemom za detekciju fluorescencije i hemiluminiscencije</p>	<p><b>Apparatus</b> Dark chamber Fluorescence/Chemiluminiscence imager</p>
<p align="center"><b>Proizvođač i model/The manufacturer and model</b> LAS 1000 Plus – Fujifilm, Japan</p>	
<p><b>Kratak opis metode</b> 1. Kamera je u stanju da detektuje signal fluorescencije sa gela koji je dobijen posle horizontalne elektroforeze produkta PCR reakcije i fluorofore (najčešće SybrGreen). Signal na mestu gde se očekuje ampikon predstavlja potvrdu prisustva specifične DNK sekvence u uzorku. 2. Kamera je u stanju da detektuje i kvantifikuje hemiluminiscenciju sa membrane koja je dobijena posle vertikalne elektroforeze i transfera na membranu u sklopu Western Blota. Signal na mestu gde se očekuje protein se može koristiti za kvalitativnu i kvantitativnu analizu proteina uz pomoć programa koji je instaliran na kompjuteru koji kontroliše kameru.</p>	<p><b>Short description of the method</b> 1. Camera is able to detect fluorescent signal from the gel obtained by the enrichment of endpoint PCR products with a fluorophore (usually SybrGreen). Signal at the place where an amplicon is expected is used as a confirmation of DNA sequence presence. 2. Camera is able to detect and quantify chemiluminescent signal from the membrane obtained after the Western Blot procedure. Signal at the place where a protein is expected can be used for the subsequent qualitative and quantitative analysis. This is performed by the software which is installed on the controlling computer.</p>
<p><b>Tehničke karakteristike</b> Mračna komora poseduje pokretnu policu koja omogućava postavljanje uzorka bliže (visoka rezolucija) ili dalje (velika površina gela/membrane) kameri. Kamera je ultrasenzitivna (sočivo 5.02 cm; 0.01e/pix; 20e total noise; 1.3 megapiksela) i radi na temperaturi od -35°C koja se postiže uz pomoć kontrolora temperature kamere. Računar kontroliše ceo sistem, a program instaliran na njemu ima mogućnost i da beleži i analizira dobijene slike.</p>	<p><b>Technical characteristics</b> Dark chamber is equipped with a moving shelf and it is possible to move it closer to (high resolution) or further away from (large sample surface) the camera. Ultrasensitive camera (2"lens; 0.01e/pix; 20e total noise; 1.3MPI) operates at the -35°C temperature and it is controlled by a separate camera controller device. Computer controls the whole system and it is equipped with a software which is able to record and analyse the obtained photos.</p>
<p><b>Primena i tip uzorka</b> Gel ili membrana na kojoj su biomolekuli obeleženi fluorescentnom ili hemiluminiscentnom bojom</p>	<p><b>Application and sample type</b> Gel or membrane containing biomolecules of interest marked with a fluorescent or chemiluminescent dye</p>
<p align="center"><b>Osoba za kontakt / Contact person</b> Doc. dr Marin Jukić, <a href="mailto:marin.jukic@pharmacy.bg.ac.rs">marin.jukic@pharmacy.bg.ac.rs</a></p>	
<p align="center"><b>Link ka uređaju na sajtu proizvođača / Link of the product on the manufacturer's website</b> Ne postoji više, specifikacije: <a href="http://www.imb.sinica.edu.tw/core/publicfacilities/pdf/LAS-1000plus_om_e_ver2.pdf">http://www.imb.sinica.edu.tw/core/publicfacilities/pdf/LAS-1000plus_om_e_ver2.pdf</a></p>	