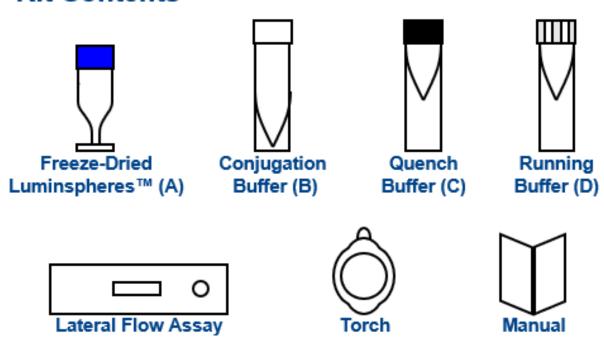


Freeze-Dried Luminspheres™ Bioconjugation Kit

Product Code	CHRLUMG01
Lot Number	See individual contents
Storage	This kit should be stored at 2-8 °C in the dark.
Use	Research use only. Not for use in diagnostic procedures.
Applications	Immunofluorescence
Safety Note	The hazards associated with Luminspheres™ are classified as unknown. All other reagents in the kit are classified as non-hazardous. Wear disposable gloves, laboratory coat and safety glasses.
Disposal	Dispose of in accordance with Hazardous Waste Regulations 2005 and any additional local regulations.

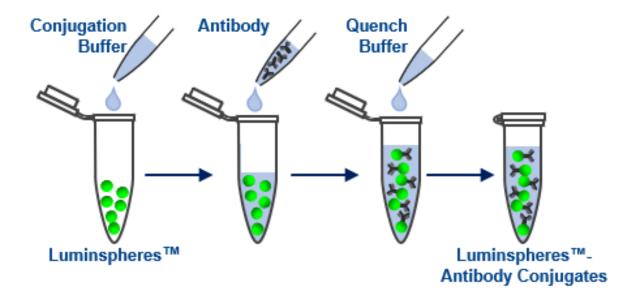
Kit Contents



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Antibody Conjugation Protocol

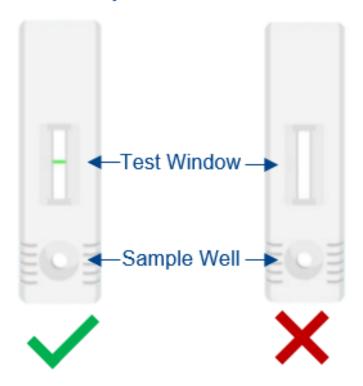


- Before use, centrifuge (1,000 rpm, 30 seconds); Conjugation Buffer (B), Quench Buffer (C) and Running Buffer (D) to concentrate solutions to bottom of the tube.
- Dissolve the Freeze-Dried Luminspheres™ (A) by adding all the Conjugation Buffer (B) (940 µL) by repeatedly aspirating and expelling from the pipette tip.
- Immediately add 10 µg of the required antibody (not supplied, free from additional proteins, azide and amine containing buffers) and rotate (10-20 rpm) for 1 hour at room temperature in the dark.
- Add all the Quench Buffer (C) (50 µL) and rotate (10-20 rpm) for 1 hour at room temperature in the dark.
- Use the Luminspheres™-antibody conjugates immediately or store at 4 °C, in the dark and use within 1 week.



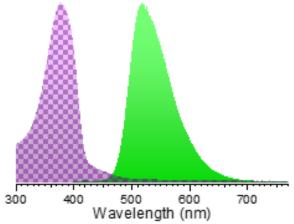
Antibody Conjugation Confirmation Test

- Add the prepared Luminspheres[™]-antibody conjugates (10 µL) to all the Running Buffer (D) (90 µL).
- Transfer all this solution (100 μL) to the 'Sample Well' of the Lateral Flow Assay.
- Leave the Lateral Flow Assay to run for 30 minutes.
- Illuminate the 'Test Window' using the supplied Torch.
- A single green fluorescent line indicates successful conjugation between antibody and Luminspheres™. If no fluorescent line present; check for aggregation and repeat with different antibody.





Luminspheres™ Excitation & Emission Spectra



Compatible Instruments

Recommended instruments and settings, this list is not exhaustive.

Fluorescence Microscopy

Nikon

UV-2A (BP 355/50, BS 400, LP 410) V-2A (BP 400/40, BS 430, LP 440)

Olympus

U-MWU (BP 330-385, BS 400, LP 420)

Leica

Filter cube A (BP 360/40, BS 400, LP 425) Filter cube D (BP 355-425 BS 455, LP 470)

Zeiss

Filter Set 02 (BP 365, BS 395, LP 420)

Microplate Reader

Glomax explorer (Promega)

Excitation wavelength: 365nm Detection region: 500–550nm

SpectraMax i3x (Molecular Devices) Excitation wavelength: 385/30 nm

Detection region: 525/30 nm

CLARIOstar (BMG LABTECH) Excitation wavelength: 385/30 nm

Detection region: 525/30 nm

Fluoroskan (Thermofisher)

Excitation wavelength: 380/11 nm Detection region: 518/13 nm

Flow Cytometry

ZE5 Cell Analyzer (Biorad)

Excitation laser: 405 nm

Detection filters: 525/50 and LP 439, 493 nm

CytoFLEX (Beckman)

Excitation laser: 375 and 405 nm Detection filter: BP 525/40 nm

FACSymphony (BD Biosciences)

Excitation laser: 375 and 405 nm

Detection filters: BP 515/20 or 525/40 nm

Attune (ThermoFisher)

Excitation laser: 375 and 405 nm

Detection filers: BP 512/25 or 530/30 nm