

■ Octet® System

생체분자물질 상호작용 반응 분석기

제품 용도

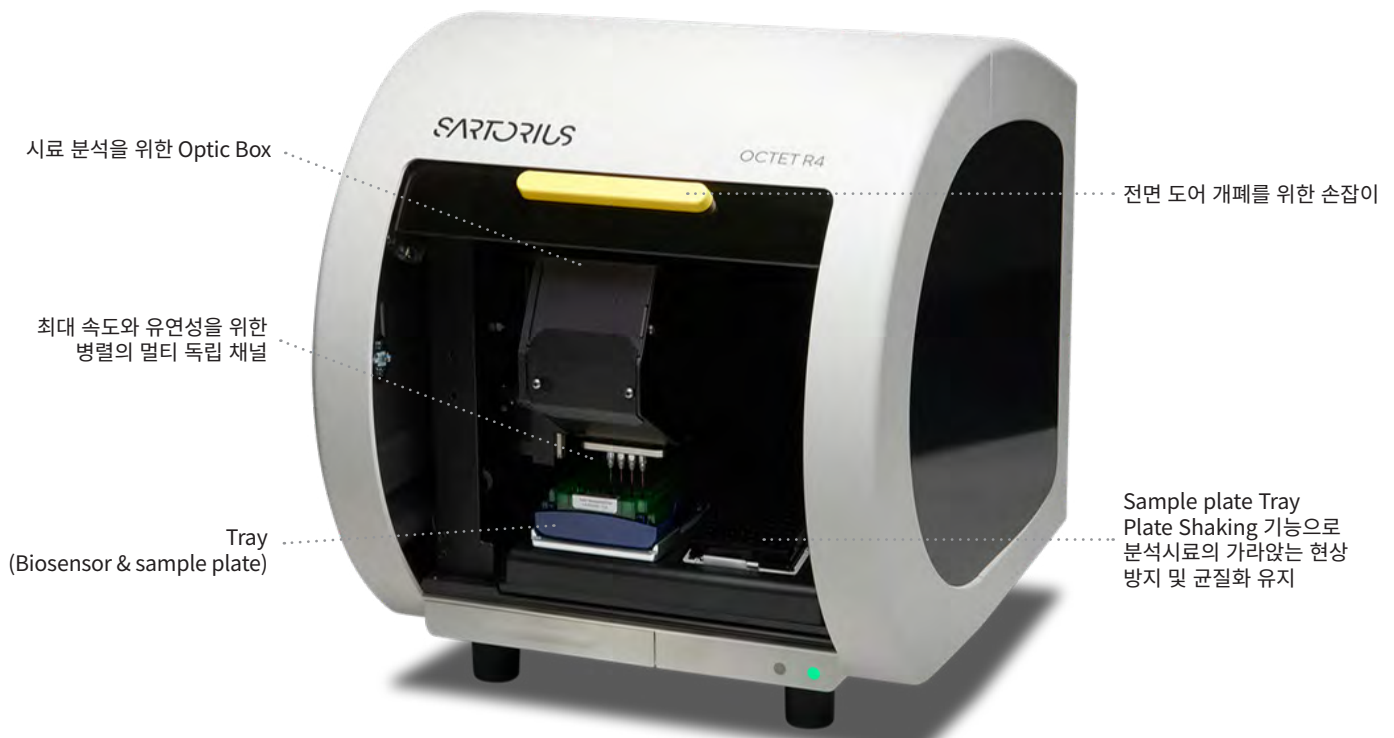
- 신약 후보물질의 발견 및 특성화를 위한 고유의 높은 샘플처리 플랫폼을 제공합니다.
- 비표지 방식의 BLI(Bio-Layer Interferometry) 기술을 기반으로 단백질(150 Dalton 이상)에서 바이러스 등의 다양한 종류의 생체분자물질의 분석에 사용할 수 있습니다.
- 다양한 실험에 적용이 가능한 고도의 바이오센서와 통합 분석 소프트웨어를 제공합니다.

제품 특징

- 용액에 담그는 즉시 분석(Dip & Read technology)이 가능한 바이오센서 기술로 낮은 CV값과 넓은 농도 측정 범위 내에서 활성단백질의 농도를 확인할 수 있습니다.
- 96-/384-well Plate 기반으로 샘플을 분석하며 150Da 이상의 다양한 생체분자물질 간의 상호작용 및 스크리닝 분석 실험에 사용할 수 있습니다.
- Fluidics-free 방식으로 안정적이고 별도의 장비 유지보수를 위한 물품이 필요없어 장비의 관리가 용이합니다.

제품 장점

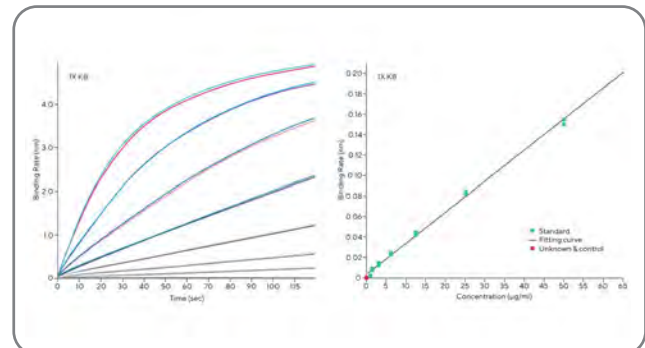
- Easy-to-use
간단한 장비 구동 방식과 심플한 소프트웨어 사용으로 높은 편의성을 제공합니다
- Dip and Read Technology
Fluidics-free로 막힘 없이 샘플 분석이 가능하고 별도의 유지보수 물품이 필요 없어 장비 관리가 용이합니다.
- 다양한 바이오센서 선택
광범위한 바이오센서 및 시약 선택으로 다양하고 편리한 실험 조건 탐색이 가능합니다.
- Crude sample 사용 가능
샘플의 정제 분석 과정 없이 용액에 담그는 즉시 분석이 가능하여 30분 내에 96개의 샘플의 정량이 가능합니다.
- 장비 간 업그레이드 가능
실험상황에 맞춰 다채널 장비로 업그레이드 가능합니다.
(2, 4, 8채널 장비 간 업그레이드 가능)
- GxP Package 지원 가능
21 CFR part 11 소프트웨어 및 IQ, OQ, PQ를 포함하는 validation 서비스를 지원합니다.



■ Octet® Available Applications

■ Quantitative Applications

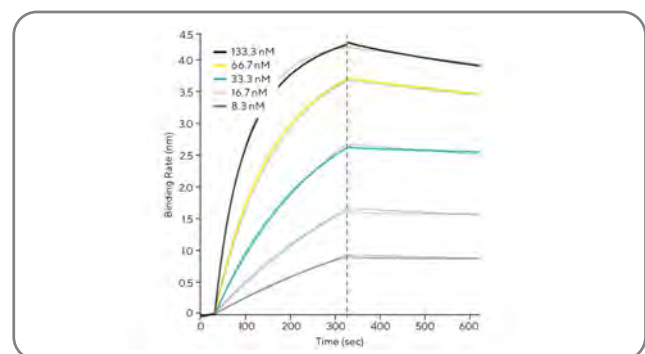
- Titer determination
- Rapid protein IgG quantitation
- Quantitation assays for ELISA replacement
- Residual Protein A contamination
- Protein/Antibody Quantitation
- Plant protein quantitation in crude extracts
- Virus Quantitation check for vaccine process



Quantitation assay

■ Kinetic Applications

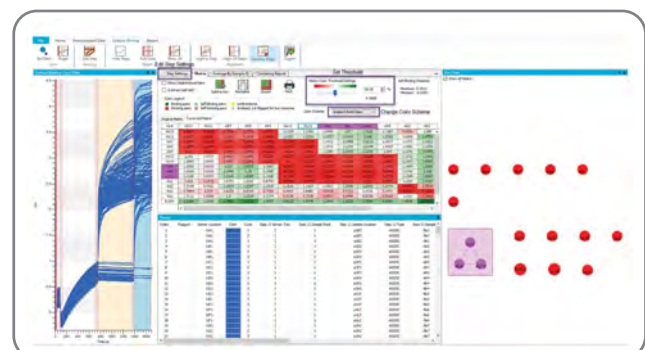
- Protein - protein interactions
- Protein - small molecule interactions
- Liposome - protein/antibody binding
- Virus-like particle - protein binding
- DNA aptamer binding
- Glycan - protein binding
- GPCR-Protein binding
- Fc gamma R - Antibody binding



Protein Kinetics assay

■ Screening Applications

- Hybridoma screening
- DNA aptamer screening
- Small molecule fragment screening
- Secondary screening and hit validation
- DNA-DNA mismatch detection
- Phage binding (phage display)
- Protein/peptide/small molecule inhibition
- Clone selection in media
- Monitoring protein expression
- Bioreactor monitoring
- Epitope binning



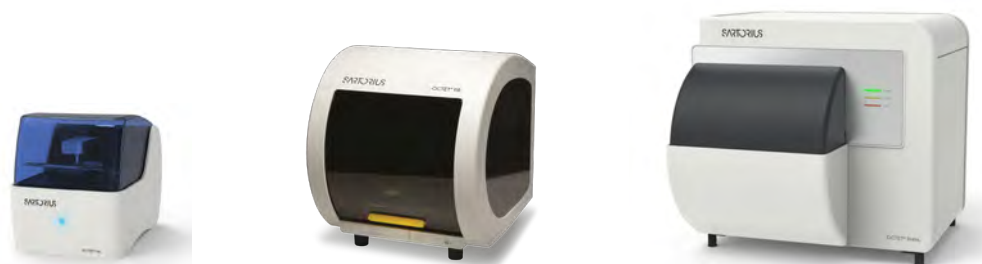
Epitope binning assay

■ Ordering Information

Instrument

<i>Model</i>	<i>Description</i>
OCTET-N1	OCTET® N1 SYSTEM OCTET N1 instrument, Analysis Software (Not included computer), starter kit, Drop holder and one year warranty.
OCTET-R2	OCTET® R2 SYSTEM OCTET R2 instrument, Desktop computer, LCD monitor, Accessory kit, and one year warranty.
OCTET-R4	OCTET® R4 SYSTEM OCTET R4 instrument, Desktop computer, LCD monitor, Accessory kit, and one year warranty.
OCTET-R8	OCTET® R8 SYSTEM OCTET R8 instrument, Desktop computer, LCD monitor, Accessory kit, and one year warranty.
OCTET-R8-GxP	OCTET® R8-GxP PACKAGE OCTET R8 instrument, Desktop computer, LCD monitor, 21 CFR Part II software, IQ/OQ/PQ kits and services, Accessory kit, and one year warranty.
OCTET-RH16	OCTET® RH16 SYSTEM OCTET RH16 instrument, Desktop computer, LCD monitor, Accessory kit, and one year warranty.
OCTET-RH16-GxP	OCTET® RH16-GxP PACKAGE OCTET RH16 instrument, Desktop computer, LCD monitor, 21 CFR Part II software, IQ/OQ/PQ kits and services, Accessory kit, and one year warranty.
OCTET-RH96	OCTET® RH96 SYSTEM OCTET RH96 instrument, Desktop computer, LCD monitor, Accessory kit, and one year warranty.
OCTET-RH96-GxP	OCTET® RH96-GxP PACKAGE OCTET RH96 instrument, Desktop computer, LCD monitor, 21 CFR Part II software, IQ/OQ/PQ kits and services, Accessory kit, and one year warranty.

■ Octet® Instruments Technical Specification



<i>Instruments</i>	<i>OCTET® N1</i>	<i>OCTET® R2</i>	<i>OCTET® R4</i>	<i>OCTET® R8</i>	<i>OCTET® RH16</i>	<i>OCTET® RH96</i>
No. of channels	1	2	4	8	16	96
Analysis temperature range	Ambient	15–40°C			Ambient +4 – 40°C	
Sample plate format	Drop Holder Tube Holder	96-well			96-well, 384-well	
Sample Volume	4µl/drop 250µl/0.5ml tube	180–220µl/well			96 well plate 180–220µl/well 384 well plate 40, 100µl/well	
Orbital Flow Capacity	-	Static or 100–1,500rpm			Static or 100–1,500rpm	
Field upgradability	-	To R4, R8	To R8			
GxP compatibility	-	-	-	Yes	Yes	Yes

■ Octet® BLI Biosensors - Specifications

<i>Order No.</i>	<i>Description</i>
BLI Biosensors	
18-5010	Biosensor / Protein A (ProA), Single Tray
18-5082	Biosensor / Protein G (ProG), Single Tray
18-5085	Biosensor / Protein L (ProL), Single Tray
18-5019	Biosensor / Streptavidin (SA), Single Tray
18-5117	Biosensor / High Precision Streptavidin (SAX), Single Tray
18-5136	Biosensor / High Precision Streptavidin 2.0 (SAX2), Single Tray
18-5057	Biosensor / Super Streptavidin (SSA), Single Tray
18-5060	Biosensor / Anti-Human Fc Capture (AHC), Single Tray
18-5088	Biosensor / Anti-Mouse Fc Capture (AMC), Single Tray
18-5001	Biosensor / Anti-Human IgG Quantitation (AHQ), Single Tray
18-5022	Biosensor / Anti-Murine IgG Quantitation (AMQ), Single Tray
18-5125	Biosensor / Anti-Human Fab-CH1 2nd Generation (FAB2G), Single Tray
18-5120	Biosensor / Anti-Penta-HIS (HIS1K), Single Tray
18-5101	Biosensor / Ni-NTA (NTA), Single Tray
18-5114	Biosensor / Anti-HIS (HIS2), Single Tray
18-5096	Biosensor / Anti-GST (GST), Single Tray
18-5092	Biosensor / Amine Reactive 2nd Generation (AR2G), Single Tray
18-5045	Biosensor / Aminopropylsilane (APS), Single Tray



■ Ready BLI Detection Kits

<i>Order No.</i>	<i>Description</i>
18-5081	Octet® Anti-CHO HCP Kit / Rapid, high-throughput detection of CHO host cell proteins, 96ea/Tray & Reagents kit
18-5128	Octet® RPA Kit / Protein A and biosimilars such as MabSelect SuRe, 96ea/Tray & Reagents kit
18-5135	Octet® Sialic Acid (GlyS) Kit / High-throughput sialic acid screening of cell culture samples, 96ea/Tray & Reagents kit

■ Octet® Reagents for Quantitation & Kinetics Assay

<i>Order No.</i>	<i>Description</i>
18-1104	Sample dilution buffer for quantitation assays, 50ml
18-1105	Sample dilution buffer for kinetics assays, 50ml
18-1118	Reagent / IgG Calibrators Extended Range
18-5095	Reagent / Amine Coupling 2G Reagent kit