

Materials List for

Rapid Glyco-Qualitative Assessment of Recombinant Proteins Using a Fully Automated System

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Materials

Name	Company	Catalog Number	Comments
0.2 mL 8 PCR tubes + flat cap	FastGene	FG-0028FC/SE	For dispensing and storage of biotin labeling reagents
2.0 mL SC Micro Tube protein LB	SARSTEDT AG&Co. KG	72.694.600	For loading samples in LuBEA-VIII
Analysis software	SAS Institute Inc.	JMP 17	
Anti-Static Ionizer. 110 volts	Plas-Labs	800-AS/SPI	Use while inserting beads into BIST Tip.
Antistatic tweezers NK2A	RUBIS	9-5681-01	Use while inserting beads into BIST Tip.
Automated reaction measurement device	Precision System Science Co., Ltd.	LuBEA	All data in this study were obtained using LuBEA-VIII. While LuBEA is commercialized, LuBEA-VIII is currently in the development phase. The website for product details of LuBEA and LuBEA-VIII can be found at the following URL (https://www.pss.co.jp/english/technology/apit/bist02.html).
Biotin-(AC5)2 Sulfo-Osu	Dojindo	341-06801	As biotinylation reagent
BIST spacer bead- V-11	Precision System Science Co., Ltd.	F4938000	Diameter: 1 mm
BIST tip and sheath	Precision System Science Co., Ltd.	F4930-000	Fill this empty tip with beads.
Calcium chloride	Wako	039-00475	For preparing buffer solutions
Can Get Signal Solution 2	TOYOBO	NKB-301	This blocking reagent is good for this method
CentriVap Benchtop Vacuum Concentrators	Labconco	7810010	For dry of biotinylation reagent. The substitution provided by other companies is possible.
Clarity Western ECL Substrate	Bio-Rad	1705060	For measuring the samples by LuVEA VIII
Cold trap CentriVap series	Labconco	7460040	For dry of biotinylation reagent. The substitution provided by other companies is possible.
Glycine	Wako	077-00735	For preparing buffer solutions
Manganese(II) Chloride Tetrahydrate	Wako	139-00722	For preparing buffer solutions
Milli-Q reference	MERCK	ZIQ7000T0C	As deionized water for dilution of reagents and buffers
PBS	Wako	162-19321	For preparing buffer solutions
Peroxidase Streptavidin	Jackson	016-030-084	This antibody is good for GlycoBIST analysis. It is useful

			for the detection of the western blotting, although substitutions can be provided by other companies.
Probe bead	Precision System Science Co., Ltd.	FP4936000	For preparing lectin-fixed beads. See Shimazaki, H. et al., Current Protocols in Protein Science, 2020 in reference section for detail.
Protein LoBind Tubes 1.5 mL	Eppendorf	0030108442	Use while preparing the samples such as biotinylation.
Silica gel (for desiccan)	Kanto chemical	37039-02	Use while storing the GlycoBIST tip and dried biotinylation reagent.
Static electricity removal sheet M	TRUSCO NAKAYAMA	SD5050	Use while inserting beads into BIST Tip.
SV Cartridge II	Daido Chemical Industry	ED041	For measuring the samples by LuVEA VIII
Table Microcentrifuge-CAPSULEFUGE	TOMY	PMC-060	For spin-down of the mixture in each process
Triton X-100	Nacalai tesque	35501-15	For preparing buffer solutions