

Description

The **LectPROFILE plate** is a lectin array (1,2) proposed by GLYcoDiag to highlight specific types of structures and/or to indicate the potential modifications of glycans with respect to reference structures. The relevant choice of a range of lectins (naturals (Table 1) or recombinants (Table 2)) makes it possible to validate the structure of glycans in a short time and with very simple basic equipment.

Each lectin are immobilized on the bottom of microtiter plates (96-well format), intended for absorbance or fluorescence interaction measurements. Up to 28 different lectins (see the list below) are proposed in a minimum format of 2 strips of 8 wells, in order to compose one or more microplates adapted to the desired analysis.



List of LectPROFILE plates (natural lectins)

Reference	Short Name	Common Name
LP1222	ABA	<i>Agaricus Bisporus</i>
LP1221	AIA/Jacalin	<i>Artocarpus intergrifolia</i>
LP1367	AML	<i>Astragalus membranaceus</i>
LP1205	ASA	<i>Allium sativum agglutinin</i>
LP1889	BanLec	<i>Musa acuminata</i>
LP1209	BPA	<i>Bauhinia purpurea</i>
LP1254	CJA	<i>Crotalaria juncea</i>
LP1366	cMOL	<i>Moringa oleifera</i>
LP1201	ConA	<i>Canavalia ensiformis</i>
LP1249	CorM	<i>Coregonus lavaretus marenae</i>
LP1211	DBA	<i>Dolichos biflorus</i>
LP1206	GNL, GNA	<i>Galanthus nivalis</i>
LP1202	LcH	<i>Lens culinaris</i>
LP1252	NPA	<i>Narcissus pseudonarcissus Daffodil</i>
LP1236	MAA	<i>Maackia amurensis</i>
LP1242	MOA	<i>Marasmius oreades agglutinin</i>
LP1240	PHA-E	<i>Phaseolus vulgaris</i>
LP1239	PHA-L	<i>Phaseolus vulgaris</i>
LP1223	PNA	<i>Arachis hypogaea</i>
LP1203	PSA	<i>Pisum sativum</i>
LP1216	SBA	<i>Glycine max</i>
LP1237	SNA	<i>Sambucus nigra</i>
LP1261	TXLC-I	<i>Tulipa gesneriana agglutinin</i>
LP1234	UEA-I	<i>Ulex Europaeus</i>
LP1229	UEA-II	<i>Ulex Europaeus</i>
LP1253	VEA	<i>Vicia ervilia</i>
LP1204	VFA	<i>Vicia faba</i>
LP1230	WGA	<i>Triticum vulgare</i>

Table 1. Lists of naturals lectins available for the LectPROFILE plate.

Distributed by:

CliniSciences Group

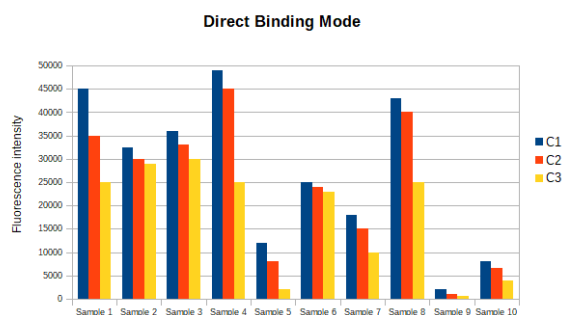
List of LEctPROFILE plates (recombinant lectins)

Reference	Short Name	Common name
LP1255	BC2L-A	<i>Burkholderia cenocepacia lectin A</i>
LP1256	BC2L-C	<i>Burkholderia cenocepacia lectin C (N terminal domain)</i>
LP1688	FimH	<i>Escherichia Coli Adhesin FimH</i>
LP2094	HPyL	<i>Human Polyomavirus 9 VP1</i>
LP1257	PA-IL	<i>Pseudomonas aeruginosa lectin A</i>
LP1259	PAII-L	<i>Pseudomonas aeruginosa lectin B (Lec B)</i>
LP2099	RPL-Fuc1	<i>Recombinant Prokaryotic Lectin Fuc1</i>
LP2095	RPL- α Gal	<i>Recombinant Prokaryotic Lectin αGal</i>
LP1579	RPL-Gal1	<i>Recombinant Prokaryotic Lectin Gal1</i>
LP1580	RPL-Gal2	<i>Recombinant Prokaryotic Lectin Gal2</i>
LP1581	RPL-Gal3	<i>Recombinant Prokaryotic Lectin Gal3</i>
LP1582	RPL-Gal4	<i>Recombinant Prokaryotic Lectin Gal4</i>
LP1583	RPL- α Man	<i>Recombinant Prokaryotic Lectin αMannose</i>
LP1584	RPL-Man2	<i>Recombinant Prokaryotic Lectin Man2</i>
LP2096	RPL-Sia1	<i>Recombinant Prokaryotic Lectin Sia1</i>
LP2097	RPL-Sia2	<i>Recombinant Prokaryotic Lectin Sia2</i>
LP2098	RPL-Sia3	<i>Recombinant Prokaryotic Lectin Sia3</i>
LP1258	RSL	<i>Ralstonia solanacearum</i>

Table 2. Lists of recombinants lectins available for the LEctPROFILE plate.

Applications

The evaluation of compounds interactions with lectins is achieved by the **direct binding mode** that evaluate potential interaction of compounds ranging from pure molecule to complex mixtures (glycocojugate(s), complex carbohydrates or glycomimetics). Previous labeling of target molecule(s) by biotinylation or by fluoresceinylation is required for readout.



Name	Content	Analysis mode	Stability
LEctPROFILE plate	2 x 8 well strip per lectin used for fluorescence or absorbance detection	<i>Direct Binding Mode. The number of products analysed on 96-well plates is dependent on the number of 2x8 well strip by lectin.</i>	Each LEctPROFILE plate are stable for minimum 6 months at -20 °C

Table 3. Specifications of LEctPROFILE plates.

References

- Hsu, K.-L., Mahal, L. K., *Sweet tasting chips: microarray-based analysis of glycans*. Cur. Opi. In Chem. Biol., **2009**, 13, 427-432.
- Hirabayashi, J., Yamada, M., Kuno, A., Tateno, H., *Lectin microarrays: concept, principle and applications*, Chem. Soc. Rev., **2013**, 42, 4443-4458.

Distributed by:

CliniSciences Group

CliniSciences Group

Austria

Company: CliniSciences GmbH
Address: Sternwartestrasse 76, A-1180
Wien - Austria
Telephone: +43 720 115 580
Fax: +43 720 115 577
Email: oesterreich@clinisciences.com
Web: <https://www.clinisciences.com>



Belgium

Company: CliniSciences S.R.L
Address: Avenue Stalingrad 52, 1000
Brussels - Belgium
Telephone: +32 2 31 50 800
Fax: +32 2 31 50 801
Email: belgium@clinisciences.com
Web: <https://www.clinisciences.com>



Denmark

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: denmark@clinisciences.com
Web: <https://www.clinisciences.com>



Finland

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: suomi@clinisciences.com
Web: <https://www.clinisciences.com>



France

Company: CliniSciences S.A.S
Address: 74 Rue des Suisses, 92000
Nanterre- France
Telephone: +33 9 77 40 09 09
Fax: +33 9 77 40 10 11
Email: info@clinisciences.com
Web: <https://www.clinisciences.com>



Germany

Company: Biotrend Chemikalien GmbH
Address: Wilhelm-Mauser-Str. 41-43,
50827 Köln - Germany
Telephone: +49 221 9498 320
Fax: +49 221 9498 325
Email: info@biotrend.com
Web: <https://www.biotrend.com>



Iceland

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: island@clinisciences.com
Web: <https://www.clinisciences.com>



Ireland

Company: CliniSciences Limited
Address: Ground Floor, 71 lower Baggot street
Dublin D02 P593 - Ireland
Telephone: +353 1 6971 146
Fax: +353 1 6971 147
Email: ireland@clinisciences.com
Web: <https://www.clinisciences.com>



Italy

Company: CliniSciences S.r.l
Address: Via Maremmana inferiore 378
Roma 00012 Guidonia Montecelio - Italy
Telephone: +39 06 94 80 56 71
Fax: +39 06 94 80 00 21
Email: italia@clinisciences.com
Web: <https://www.clinisciences.com>



Netherlands

Company: CliniSciences B.V.
Address: Kraijenhoffstraat 137A,
1018RG Amsterdam, - Netherlands
Telephone: +31 85 2082 351
Fax: +31 85 2082 353
Email: nederland@clinisciences.com
Web: <https://www.clinisciences.com>



Norway

Company: CliniSciences AS
Address: c/o MerVerdi Munkeordtunet 10
1164 Oslo - Norway
Telephone: +47 21 988 882
Email: norge@clinisciences.com
Web: <https://www.clinisciences.com>



Poland

Company: CliniSciences sp.Z.o.o.
Address: ul. Rotmistrza Witolda Pileckiego 67
lok. 200 - 02-781 Warszawa -Poland
Telephone: +48 22 307 0535
Fax: +48 22 307 0532
Email: polska@clinisciences.com
Web: <https://www.clinisciences.com>



Portugal

Company: Quimigen Unipessoal LDA
Address: Rua Almada Negreiros, Lote 5, Loja 14,
2615-275 Alverca Do Ribatejo - Portugal
Telephone: +351 30 8808 050
Fax: +351 30 8808 052
Email: info@quimigen.com
Web: <https://www.quimigen.pt>



Spain

Company: CliniSciences Lab Solutions
Address: C/ Hermanos del Moral 13
(Bajo E), 28019, Madrid - Spain
Telephone: +34 916 750 700
Fax: +34 91 269 40 74
Email: espana@clinisciences.com
Web: <https://www.clinisciences.com>



Sweden

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: sverige@clinisciences.com
Web: <https://www.clinisciences.com>



Switzerland

Company: CliniSciences AG
Address: Fracht Ost Flughafen Kloten
CH-8058 Zürich - Switzerland
Telephone: +41 (044) 805 76 81
Fax: +41 (044) 805 76 75
Email: switzerland@clinisciences.com
Web: <https://www.clinisciences.com>



UK

Company: CliniSciences Limited
Address: 11 Progress Business center, Whittle
Parkway, SL1 6DQ Slough- United Kingdom
Telephone: +44 (0)1753 866 511
or +44 (0) 330 684 0982
Fax: +44 (0)1753 208 899
Email: uk@clinisciences.com
Web: <https://www.clinisciences.com>



USA

Company: Biotrend Chemicals LLC
Address: c/o Carr Riggs Ingram,
500 Grand Boulevard, Suite 210 Miramar
Beach, FL 32550- USA
Telephone: +1 850 650 7790
Fax: +1 850 650 4383
Email: info@biotrend-usa.com
Web: <https://www.biotrend-usa.com>

