

## A list of lectins on LecChip™ Ver.1 and the specificity

No.	Lectin (origin)	Reported glycan selectivity
1	LTL (Lotus tetragonolobus)	Fuca1-3(Galβ1-4)GlcNAc (Lewis x), Fuca1-2Galβ1-4GlcNAc (H-type 2)
2	PSA (Pisum sativum)	Fuca1-6GlcNAc (Core Fuc) , α-Man
3	LCA (Lens culinaris)	Fuca1-6GlcNAc (Core Fuc), α-Man
4	UEA-I (Ulex europaeus)	Fuca1-2Galβ1-4GlcNAc (H-type 2)
5	AOL (Aspergillus oryzae)	Fuca1-6GlcNAc (Core Fuc), Fuca1-2Galβ1-4GlcNAc (H-type 2)
6	AAL (Aleuria aurantia)	Fuca1-3(Galβ1-4)GlcNAc (Lewis x), Fuca1-6GlcNAc (Core Fuc),
7	MAL_I (Maackia amurensis)	Siaa2-3Galβ1-4GlcNAc
8	SNA (Sambucus nigra)	Siaa2-6Gal/GalNAc
9	SSA (Sambucus sieboldiana)	Siaa2-6Gal/GalNAc
10	TJA-I (Trichosanthes japonica)	Siaa2-6Gal/GalNAc, HSO3(-) -6Gal β1-4GlcNAc
11	PHAL (Phaseolus vulgaris)	tri/tetra-antennary complex-type N-glycan
12	ECA (Erythrina cristagalli)	Galβ1-4GlcNAc (up with increasing the number of terminal Gal), no affinity for fully sialylated N-type, fully agalactosylated N-type
13	RCA120 (Ricinus communis)	Galβ1-4GlcNAc (up with increasing the number of terminal Gal), Galβ1-3Gal (weak), no affinity for agalactosylated N-type
14	PHAE (Phaseolus vulgaris)	bi-antennary complex-type N-glycan with outer Gal and bisecting GlcNAc, no affinity for fully sialylated N-type
15	DSA (Datura stramonium)	(GlcNAcβ1-4)n (Chitin), tri/tetra-antennary N-glycan
16	GSL-II (Griffonia simplicifolia)	agalactosylated tri/tetra antennary glycans, GlcNAc, no affinity for fully galactosylated or sialylated N-type
17	NPA (Narcissus pseudonarcissus)	High-Mannose including Manα1-6Man
18	ConA (Canavalia ensiformis)	High-Mannose including Manα1-6(Manα1-3)Man
19	GNA (Galanthus nivalis)	High-Mannose including Manα1-3Man
20	HHL (Hippeastrum hybrid)	High-Mannose including Manα1-3Man or Manα1-6Man
21	ACG (mushroom, Agrocybe cylindracea)	Gal β1-3Gal, Siaa2-3Galβ1-4GlcNAc
22	TxLCI (Tulipa gesneriana)	Manα1-3(Manα1-6)Man, bi/tri-antennary complex-type N-glycan, GalNAc
23	BPL (Bauhinia purpurea)	Galβ1-3GalNAc (up with Lewis x, down with Core Fuc), GalNAc
24	TJA-II (Tanthes japonica)	Fuca1-2Galβ1-> or GalNAcβ1-> groups at their non-reducing terminals
25	EEL (Euonymus europaeus)	Galα1-3Galβ1-4GlcNAc, Fuca1-2Galβ1-3GlcNAc (H antigen)
26	ABA (fungus, Agaricus bisporus)	Galβ1-3GalNAc, GlcNAc
27	LEL tomato, Lycopersicon esculentum)	(GlcNAcβ1-4)n (Chitin), (Galβ1-4GlcNAc)n (polylactosamine)
28	STL (potato, Solanum tuberosum)	(GlcNAcβ1-4)n (Chitin) oligosaccharide containing GlcNAc and MurNAc
29	UDA (Urtica dioica)	GlcNAcβ1-4GlcNAc (Chitin), High-Mannose (3 to High, up with increasing the number of Man)
30	PWM (pokeweed, Phytolacca Americana)	(GlcNAcβ1-4)n (Chitin)
31	Jacalin (Artocarpus integrifolia)	GlcNAcβ1-3GalNAc (Core3), Siaa2-3Galβ1-3GalNAc (sialyl T), Galβ1-3GalNAc (T-antigen), α-GalNAc (Tn-antigen)
32	PNA (peanut, Arachis hypogaea)	Galβ1-3GalNAc
33	WFA (Wisteria floribunda)	GalNAcβ1-4GlcNAc (LacdiNAc), Galβ1-3(-6)GalNAc
34	ACA (Amaranthus caudatus)	Galβ1-3GalNAc (T-antigen), Siaa2-3Galβ1- GalNAc (sialyl T)
35	MPA (Maclura pomifera)	α-GalNAc (Tn-antigen), Galβ1-3GalNAc (T-antigen),
36	HPA (snail, Helix pomatia)	α-GalNAc
37	VVA (Vicia villosa)	GalNAcβ1-4Gal, GalNAcβ1-3Gal, α-GalNAc,
38	DBA (Dolichos biflorus)	Blood group A, GalNAcα1-3GalNAc, GalNAcβ1-4(Siaa2-3)Galβ1-4Glc (GM2)
39	SBA (soybean, Dolichos biflorus)	α- or β-linked GalNAc, Galα1-4Gal-Glc
40	Calsepa (Calystegia sepium)	Galactosylated bianntenary N-type with bisecting GlcNAc (galacto > agalacto, down with Core Fuc), High-Mannose (Man2-6)
41	PTL-I (Psophocarpus tetragonolobus)	α-GalNAc, Galα1-3(Fuca1-2)Gal (B-antigen)
42	MAH (Maackia amurensis)	Siaa2-3Galβ1-3(Siaa2-6)GalNAc (disialyl-T)
43	WGA (wheat germ, Triticum aestivum)	(GlcNAcβ1-4)n (Chitin), Hybrid type N-glycan, Sia
44	GSL-I A4 (Griffonia simplicifolia)	α-GalNAc,
45	GSL-I B4 (Griffonia simplicifolia)	α-Gal,

# LecChip™ Ver.1.0

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|--------------|----------------|----------------|-----------------|------------------|
| ● 1. LTL ●   | ● 10. TJA-I ●  | ● 19. GNA ●    | ● 28. STL ●     | ● 37. VVA ●      |
| ● 2. PSA ●   | ● 11. PHAL ●   | ● 20. HHL ●    | ● 29. UDA ●     | ● 38. DBA ●      |
| ● 3. LCA ●   | ● 12. ECA ●    | ● 21. ACG ●    | ● 30. PWM ●     | ● 39. SBA ●      |
| ● 4. UEA I ● | ● 13. RCA120 ● | ● 22. TxLC I ● | ● 31. Jacalin ● | ● 40. Calsepa ●  |
| ● 5. AOL ●   | ● 14. PHAE ●   | ● 23. BPL ●    | ● 32. PNA ●     | ● 41. PTL I ●    |
| ● 6. AAL ●   | ● 15. DSA ●    | ● 24. TJA-II ● | ● 33. WFA ●     | ● 42. MAH ●      |
| ● 7. MAL ●   | ● 16. GSL II ● | ● 25. EEL ●    | ● 34. ACA ●     | ● 43. WGA ●      |
| ● 8. SNA ●   | ● 17. NPA ●    | ● 26. ABA ●    | ● 35. MPA ●     | ● 44. GSL-I A4 ● |
| ● 9. SSA ●   | ● 18. ConA ●   | ● 27. LEL ●    | ● 36. HPA ●     | ● 45. GSL-I B4 ● |