

Supplemental Material

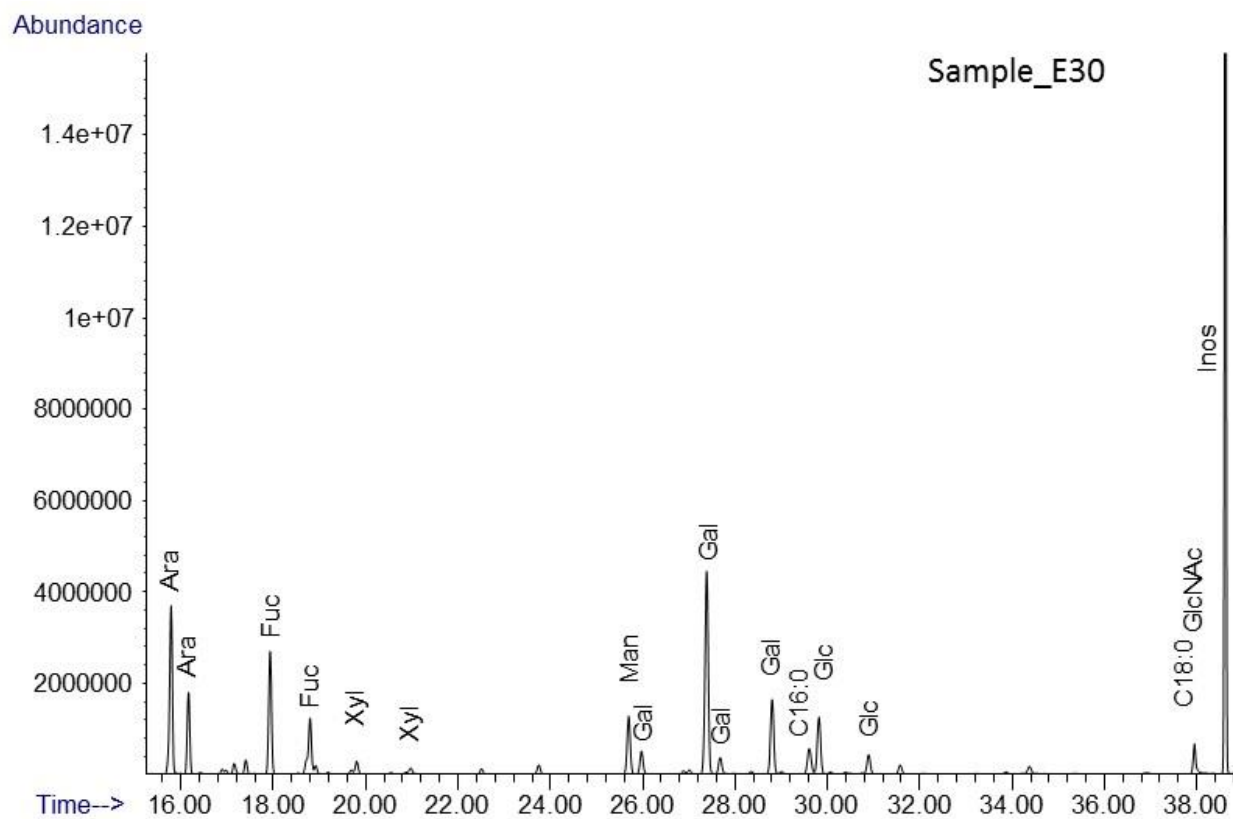


Figure S1. Glycosyl composition analysis – Total ion chromatogram (TIC) of the TMS-glycoside derivatives of sample E30 representative for all samples.

Table S1. *Acropora pharaonis* glycosyl composition results: Calculated mass and molar percentage of glycosyl residues detected by GC-MS.

Glycosyl residue	E5		E14		E26	
	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹
Arabinose (Ara)	5.2	44.3	7.1	57.6	0.5	13.7
Ribose(Rib)	0.2	2.1	n.d.	-	n.d.	-
Rhamnose (Rha)	0.2	1.2	n.d.	-	n.d.	-
Fucose (Fuc)	0.2	1.4	0.3	2.4	n.d.	-
Xylose (Xyl)	0.3	2.6	0.2	1.8	0.5	12.9
Mannose (Man)	2.3	16.7	2	13.8	1.7	36.4
Galactose (Gal)	0.9	6.6	0.8	5.7	n.d.	-
Glucose (Glc)	3.1	22.1	2.4	16.2	1.7	37
N-Acetyl Glucosamine (GlcNAc)	0.5	2.9	0.5	2.6	n.d.	-
SUM	13	99.9	13.4	100.1	4.4	100
Total Carbohydrate % by weight	13	%	13.4	%	4.4	%

¹Values are expressed as mole percent of total carbohydrate; n.d. – not detected

The total mol percentage may not add to exactly 100% due to rounding.

Table S2. *Stylophora pistillata* glycosyl composition results: Calculated mass and molar percentage of glycosyl residues detected by GC-MS.

Glycosyl residue	E2		E11		E37	
	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹
Arabinose (Ara)	n.d.	-	n.d.	-	n.d.	-
Ribose(Rib)	n.d.	-	n.d.	-	n.d.	-
Rhamnose (Rha)	n.d.	-	n.d.	-	n.d.	-
Fucose (Fuc)	n.d.	-	n.d.	-	n.d.	-
Xylose (Xyl)	0.3	9.8	0.2	8.2	0.6	24
Mannose (Man)	1.9	50.4	1.2	47.5	1.5	49.1
Galactose (Gal)	0.1	1.8	n.d.	-	n.d.	-
Glucose (Glc)	1.2	33.6	1.1	44.3	0.8	26.9
N-Acetyl Glucosamine (GlcNAc)	0.2	4.4	n.d.	-	n.d.	-
SUM	3.7	100	2.4	100	3	100
Total Carbohydrate % by weight	3.7	%	2.4	%	3	%

¹Values are expressed as mole percent of total carbohydrate; n.d. – not detected

The total mol percentage may not add to exactly 100% due to rounding.

Table S3. *Galaxea fascicularis* glycosyl composition results: Calculated mass and molar percentage of glycosyl residues detected by GC-MS.

Glycosyl residue	E6		E33		E43	
	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹
Arabinose (Ara)	n.d.	-	n.d.	-	n.d.	-
Ribose(Rib)	n.d.	-	n.d.	-	n.d.	-
Rhamnose (Rha)	n.d.	-	n.d.	-	n.d.	-
Fucose (Fuc)	0.3	8.3	n.d.	-	0.8	8.4
Xylose (Xyl)	0.6	16.7	0.6	20.1	0.6	6.2
Mannose (Man)	1.5	31.5	1.7	52.1	2.4	21.8
Galactose (Gal)	1.2	25.2	0.5	13.8	4	36.2
Glucose (Glc)	0.7	14.8	0.5	14	2.9	26.2
N-Acetyl Glucosamine (GlcNAc)	0.2	3.5	n.d.	-	0.2	1.2
SUM	4.5	100	3.2	100	10.9	100
Total Carbohydrate % by weight	4.5	%	3.2	%	10.5	%

¹Values are expressed as mole percent of total carbohydrate; n.d. – not detected

The total mol percentage may not add to exactly 100% due to rounding.

Table S4. *Porites lobata* glycosyl composition results: Calculated mass and molar percentage of glycosyl residues detected by GC-MS.

Glycosyl residue	E7		E30		E41	
	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹	Mass (µg)	Mol % ¹
Arabinose (Ara)	1.7	5.8	26.3	33.3	14.2	16.3
Ribose(Rib)	0.1	0.3	n.d.	-	n.d.	-
Rhamnose (Rha)	0.2	0.6	n.d.	-	n.d.	-
Fucose (Fuc)	1.2	3.7	18	20.9	8.7	9.1
Xylose (Xyl)	0.4	1.5	0.4	0.5	0.4	0.5
Mannose (Man)	4.1	11.6	4.6	4.8	5.6	5.4
Galactose (Gal)	20.3	58	27.7	29.2	56.1	53.7
Glucose (Glc)	4.6	13.2	6.8	7.2	10.3	9.8
N-Acetyl Glucosamine (GlcNAc)	2.3	5.3	4.7	4.1	6.6	5.2
SUM	34.9	100	88.5	100	101.8	100
Total Carbohydrate % by weight	34.9	%	88.5	%	97.9	%

¹Values are expressed as mole percent of total carbohydrate; n.d. – not detected

The total mol percentage may not add to exactly 100% due to rounding.

Table S5. *Pocillopora verrucosa* glycosyl composition results: Calculated mass and molar percentage of glycosyl residues detected by GC-MS.

Glycosyl residue	E9		E12		E44	
	Mass (μ g)	Mol % ¹	Mass (μ g)	Mol % ¹	Mass (μ g)	Mol % ¹
Arabinose (Ara)	n.d.	-	n.d.	-	n.d.	-
Ribose(Rib)	n.d.	-	n.d.	-	n.d.	-
Rhamnose (Rha)	n.d.	-	n.d.	-	n.d.	-
Fucose (Fuc)	n.d.	-	n.d.	-	n.d.	-
Xylose (Xyl)	0.7	18.5	0.2	10.4	0.7	28.9
Mannose (Man)	2.3	50.7	0.7	36.5	1.5	49.2
Galactose (Gal)	n.d.	-	0.1	4.9	n.d.	-
Glucose (Glc)	1.4	30.8	1	48.2	0.7	21.9
N-Acetyl Glucosamine (GlcNAc)	n.d.	-	n.d.	-	n.d.	-
SUM	4.3	100	2	100	2.8	100
Total Carbohydrate % by weight	4.3	%	1.9	%	2.7	%

¹Values are expressed as mole percent of total carbohydrate; n.d. – not detected

The total mol percentage may not add to exactly 100% due to rounding.