CLAIMS

1. A compound comprising two allulose molecules linked by a glycosidic bond, wherein a hydroxyl group at position 2 (C2) of one of the allulose molecules is linked to a hydroxyl group at position 1 to 6 (C1 to C6) of the other allulose molecule by the glycosidic bond.

2. The compound according to claim 1, wherein one of the two allulose molecules is cyclic allulose.

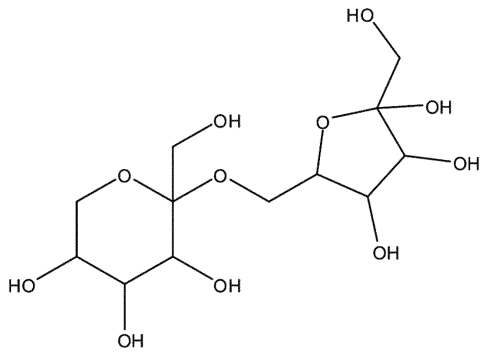
3. The compound according to claim 1, wherein the glycosidic bond is formed between a hydroxyl group at position 2 (C2) of one cyclic allulose molecule and a hydroxyl group at position 6 (C6) of the other allulose molecule.

4. The compound according to claim 1, wherein one of the two allulose molecules is in the form of psicofuranose and the other allulose molecule is in the form of psicopyranose.

5. The compound according to claim 1, wherein the compound is 2-(hydroxymethyl)-2-((3,4,5-trihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)methoxy)tetrahydro-2H-pyran-3,4,5-triol.

6. The compound according to claim 1, wherein the compound is represented by Formula 1 below:

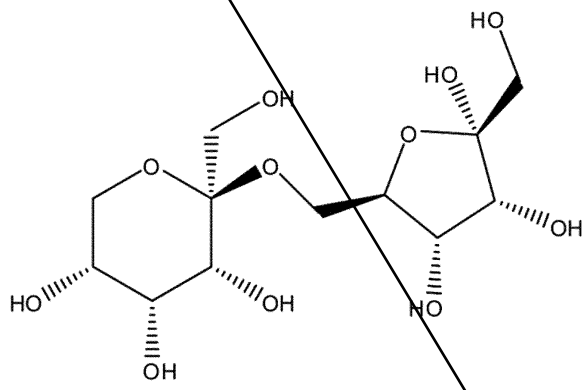
Formula 1



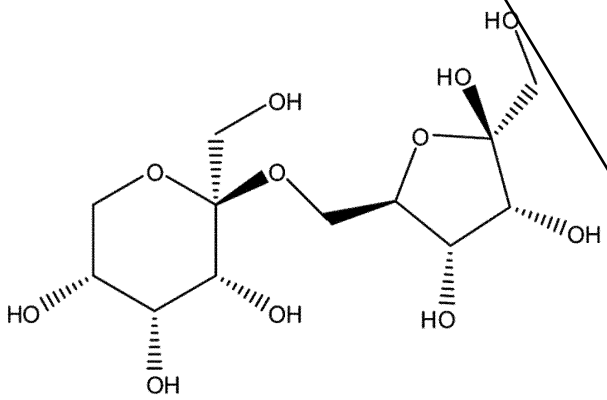
7. The compound according to claim 1, wherein the compound is (2S,3R,4R,5R)-2-(hydroxymethyl)-2-(((2R,3S,4R,5S)-3,4,5-trihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)methoxy)tetrahydro-2H-pyran-3,4,5-triol or (2S,3R,4R,5R)-2-(hydroxymethyl)-2-(((2R,3S,4R,5R)-3,4,5-trihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)methoxy)tetrahydro-2H-pyran-3,4,5-triol.

8. The compound according to claim 1, wherein the compound is represented by Formula 3 or 4 below:

Formula 3



Formula 4



9. The compound according to claim 1, wherein the compound has acid resistance at pH 0.1 to 7.

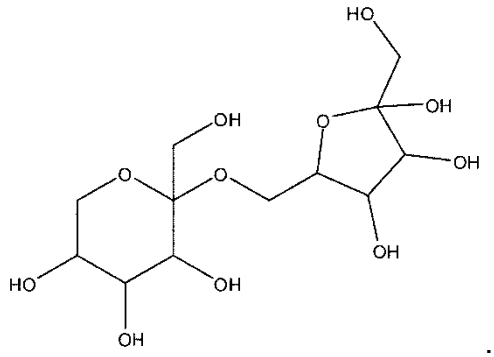
10. A saccharide composition comprising the compound of claim 1 and a monosaccharide allulose.

11. A composition for a food additive comprising the compound of claim 1.

CLAIMS

1. A compound in which two molecules of allulose are linked, wherein the compound is represented by Formula 1 below:

Formula 1



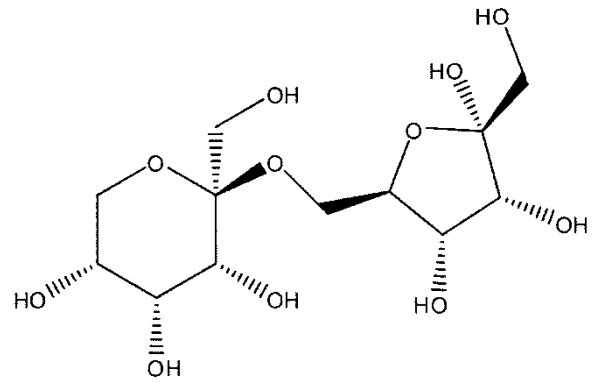
.

2. The compound according to claim 1, wherein the compound is 2-(hydroxymethyl)-2-((3,4,5-trihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)methoxy)tetrahydro-2H-pyran-3,4,5-triol.

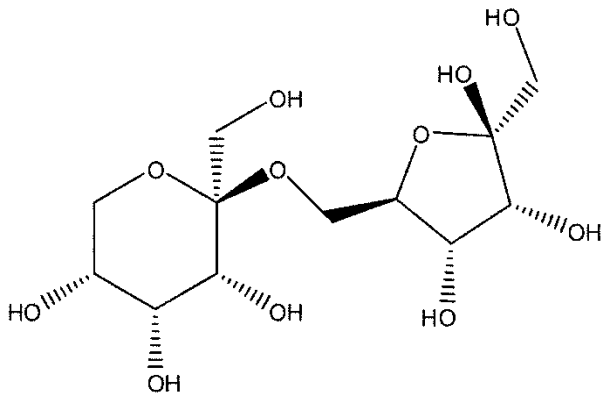
3. The compound according to claim 1, wherein the compound is (2S,3R,4R,5R)-2-(hydroxymethyl)-2-(((2R,3S,4R,5S)-3,4,5-trihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)methoxy)tetrahydro-2H-pyran-3,4,5-triol or (2S,3R,4R,5R)-2-(hydroxymethyl)-2-(((2R,3S,4R,5R)-3,4,5-trihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)methoxy)tetrahydro-2H-pyran-3,4,5-triol.

4. The compound according to claim 1, wherein the compound is represented by Formula 3 or 4 below:

Formula 3



Formula 4



5. The compound according to claim 1, wherein the compound has acid resistance at pH 0.1 to 7.

6. A saccharide composition comprising the compound of claim 1 and a monosaccharide allulose.

7. A composition for a food additive comprising the compound of claim 1.