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STARCH SODIUM OCTENYLSUCCINATE

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MODIFIED STARCHES

Prepared at the 86th JECFA (2018) and published in FAO JECFA Monograph 22 (2018), superseding specifications included in 16 individual specification monographs prepared at the 82nd JECFA (2016), published in FAO JECFA Monographs 19 (2016).

MODULAR MONOGRAPH consisting of "GENERAL SPECIFICATIONS"^(a) that contains common specifications to all modified starches (INS 1400, 1401, 1402, 1403, 1404, 1405, 1410, 1412, 1413, 1414, 1420, 1422, 1440, 1442, 1450, 1451), and 8 ANNEXES that contain specifications related to the chemical treatments of native starches:

- ANNEX 1^(a) – Fragmentation.
- ANNEX 2^(a) – Bleaching.
- ANNEX 3^(a) – Esterification and/or crosslinking with phosphorous containing compounds.
- ANNEX 4^(a) – Acetylation.
- ANNEX 5^(a) – Oxidation.
- ANNEX 6^(a) – Esterification with octenyl succinic anhydride.
- ANNEX 7^(a) – Etherification with propylene epoxide.
- ANNEX 8^(a) – Esterification and crosslinking with adipic anhydride.

The General specifications are applicable to the following modified starches, each of which should additionally fulfil the specifications of the ANNEXES as follows:

Modified Starch	INS	Annex	ADI	STATUS
Dextrin roasted starch	1400	1	N.S. ⁽¹⁾	T ⁽³⁾
Acid treated starch	1401	1	N.S. ⁽¹⁾	T ⁽³⁾
Alkaline treated starch	1402	1	N.S. ⁽¹⁾	T ⁽³⁾
Bleached starch	1403	2	N.S. ⁽¹⁾	T ⁽³⁾
Oxidized starch	1404	5	N.S. ⁽¹⁾	T ⁽³⁾
Enzyme-treated starch	1405	1	N.S. ⁽¹⁾	T ⁽³⁾
Monostarch phosphate	1410	3	N.S. ⁽¹⁾	T ⁽³⁾
Distarch phosphate	1412	3	N.S. ⁽¹⁾	T ⁽³⁾
Phosphated distarch phosphate	1413	3	N.S. ⁽¹⁾	T ⁽³⁾

Acetylated distarch phosphate	1414	3, 4	N.S. ⁽¹⁾	T ⁽³⁾
Starch acetate	1420	4	N.S. ⁽¹⁾	T ⁽³⁾
Acetylated distarch adipate	1422	4, 8	N.S. ⁽¹⁾	T ⁽³⁾
Hydroxypropyl starch	1440	7	N.S. ⁽¹⁾	T ⁽³⁾
Hydroxypropyl distarch phosphate	1442	3, 7	N.S. ⁽¹⁾	T ⁽³⁾
Starch sodium octenylsuccinate	1450	6	N.S. ⁽¹⁾	T ⁽³⁾
Acetylated oxidized starch	1451	4, 5	N.S. ⁽²⁾	T ⁽³⁾

Should any of the modified starches be subjected to additional chemical treatment, the appropriate specifications outlined in the respective ANNEX should be met. Consequently, for all fragmented and/or bleached starches the specifications of ANNEXES 1 and/or 2 respectively should be met.

^(a)Prepared at the 86th JECFA (2018) and published in FAO JECFA Monograph 22 (2018), superseding specifications included in specification monographs prepared at the 82nd JECFA (2016), published in FAO JECFA Monographs 19(2016).

⁽¹⁾An ADI “not specified” was established at the 26th JECFA (1982).

⁽²⁾An ADI “not specified” was established at the 57th JECFA (2001).

⁽³⁾ T: TENTATIVE

