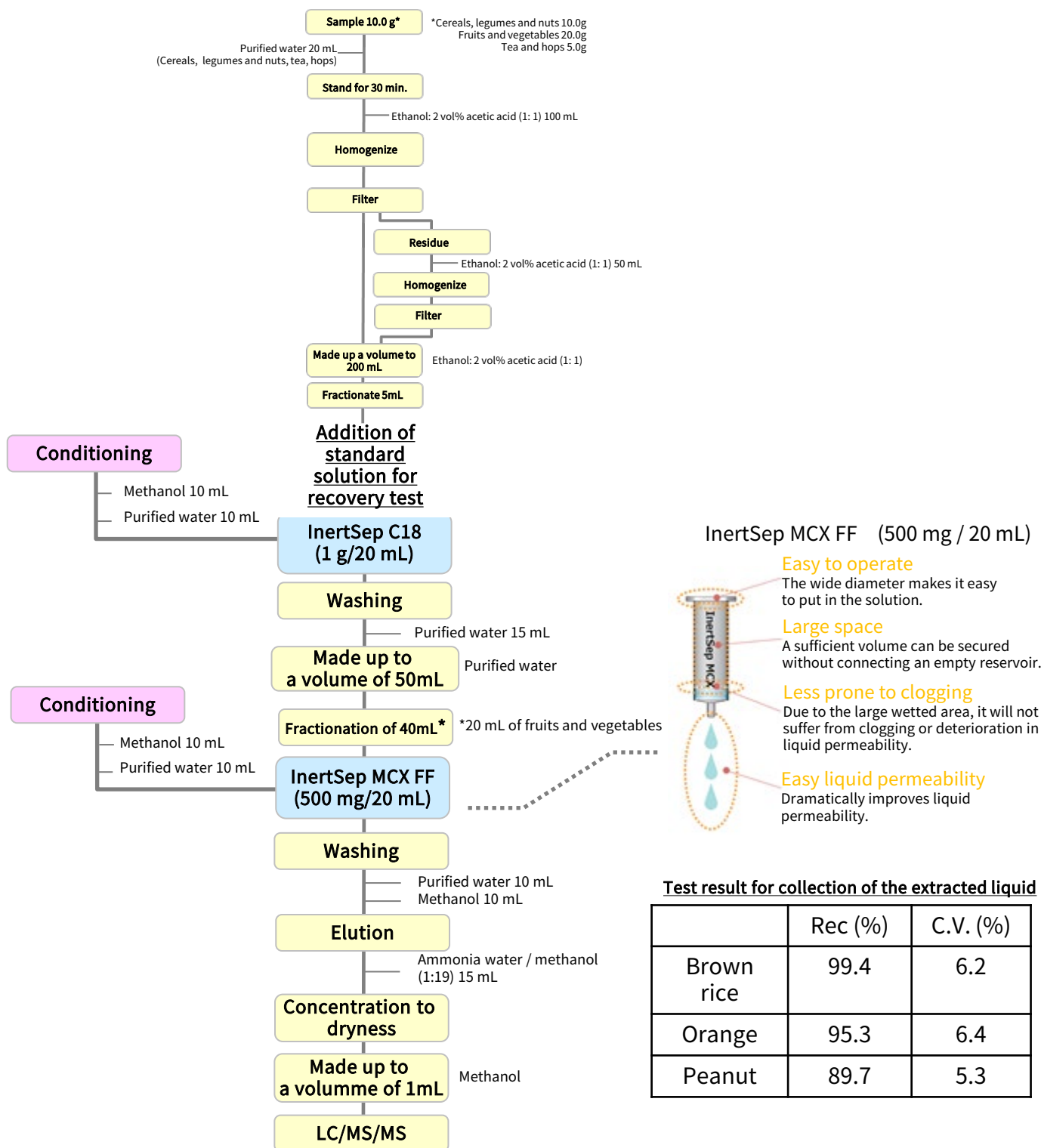


Analysis of Kasugamycin

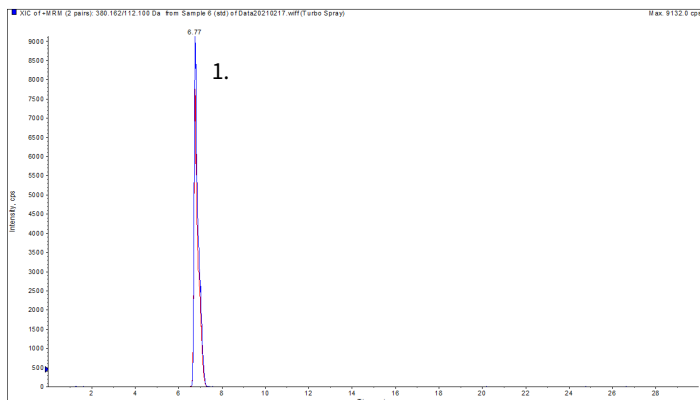
Kasugamycin is widely used as an agricultural fungicide. In this study, kasugamycin added to "brown rice", "orange", and "peanut" extracts was extracted and purified using a mixed-mode polymer solid-phase (InertSep MCX FF) with reference to a method complied with the notification test method of the Ministry of Health, Labor and Welfare. Analysed by LC / MS / MS.

1. Flow Chart of Solid Phase Pretreatment



2. Measurement Conditions

Example for measurement of standard solution



HPLC conditions

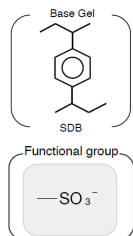
Column : InertSustain Amide (5 μ m, 150 x 2.1 mm I.D.)
Eluent : A) 0.1 % HCOOH in H₂O
 B) CH₃CN

Time (min)	A%	B%
0.0	20	80
5.0	50	50
15.0	50	50

Flow rate : 0.3 mL/min
Column temperature : 40 °C
Detection : LC-MS/MS
 (4000QTRAP: ESI, Positive, SRM)
Injection Vol. : 5 μ L
Sample : 1.kasugamycin Q1/Q3=380/112(Quantitation ions)
 380/200 (Reference ions)
 (100 μ g/L)

3. Related Products

[InertSep MCX FF]

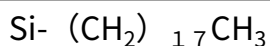


Average particle size : 70 μ m
 Surface area : 480 m²/g
 Pore volume : 1.1 mL/g
 Pore size : 9 nm
 pH range : 1~14

InertSep MCX FF is a styrene-divinylbenzene polymer (SDB) solid phase modified with a strong cation exchange group. By exerting both a reverse-phase and cation exchange action, basic compounds can be strongly retained. It is extremely effective for the separation of acidic and neutral contaminants. Since the particle size is as large as 70 μ m, it is ideal for biological sample extracts.

Description	Column size	Q' ty/pkg	Cat.No.
InertSep MCX FF	500 mg/20 mL	20 pcs	5010-62704

[InertSep C18]



InertSep C18 is a solid-phase with a non-polar interaction in which octadecyl groups are chemically bonded to silica gel. An advanced end-capping process suppresses the cation exchange interaction of the free silanol groups, resulting in less adsorption of basic compounds. Suitable as a clean-up solid-phase for degreasing in the simultaneous test method for residual pesticides.

Description	Column size	Q' ty/pkg	Cat.No.
InertSep C18	1 g/20 mL	20 pcs	5010-61014

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