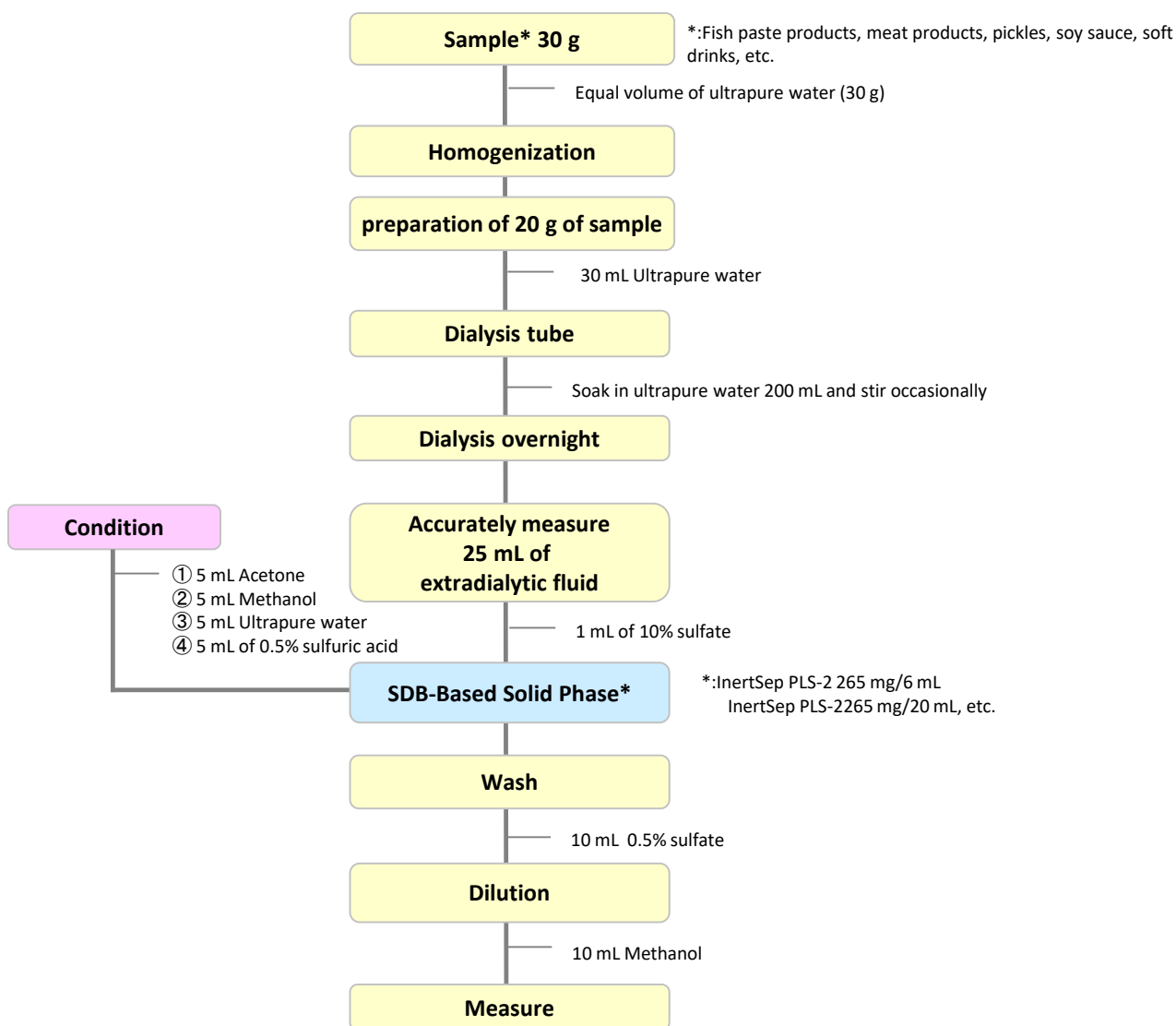


Simultaneous Analysis of Saccharin and Preservatives in Foods

The standard Hygiene Test Method employs both dialysis extraction for saccharin in foods, and steam distillation for sorbic acid and benzoic acid. Therefore, the extraction process and assay conditions are different for each target component, making it more complex to perform the analytical procedure.

In this application note, we introduce an analytical method combining dialysis extraction, which provides easier extraction of a variety of sample types, with solid-phase extraction, which offers a much simpler purification procedure.

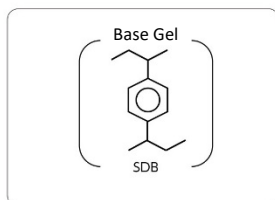
1. Flow diagram of solid phase pretreatment



NOTE) This is a method developed by GL Sciences based on literature information.
Reference: Journal of the Japanese Society of Food Chemistry, Vol. 5(2), 153-158 (1998).

2. Products for solid-phase extraction

[InertSep PLS-2]



Mean particle size : 60 μm
 Surface Area : 600 m^2/g
 Pore volume : 1.1 mL/g
 Pore size : 70 \AA
 PH range of use : 1 - 14

InertSep PLS 2 is a cartridge filled with styrene divinylbenzene polymer gel (SDB). It has a retention capacity greater than C18 and excellent stability in a wide pH range.

Syringe barrel type cartridge

Product name	Column size	Qty.	Cat.No.
InertSep PLS-2	265 mg/6 mL	50 bottles	5010-27430
	265 mg/20 mL	20 bottles	5010-27431
	270 mg/6 mL	50 bottles	5010-25020
	500 mg/6 mL	30 bottles	5010-25025
	500 mg/20 mL	20 bottles	5010-25036

[Accessories for making connections between solid-phase extraction cartridges]



Cartridge connection adapter

Cartridge adapter used to connect syringe barrel and LSC cartridges.

Product name	Specification	Qty.	Cat.No.
Solid Phase Extraction Cartridge Connection Adaptor (PP)	For 1,3,6 mL reservoirs	12	5010-60000
	For 12,20 mL reservoirs	12	5010-60001



Empty reservoir

Used when the sample volume is greater than the cartridge capacity.

Product name	Specification	Qty.	Cat.No.
Empty reservoir (PP) No frits	12 mL	20 bottles	5010-60103
	20 mL	20 bottles	5010-60104
	60 mL	10 bottles	5010-60105
	150 mL	10 bottles	5010-60106



Adapted reservoir

This reservoir can be directly connected to syringe barrel type solid phase cartridges, supplied in volumes of 1, 3 and 6 mL.

Product name	Specification	Qty.	Cat.No.
25 mL reservoir with 1,3,6 mL adapter	PP product	12	5010-60015

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

GL Sciences, Inc. Japan

22-1 Nishishinjuku 6-Chome
 Shinjuku-ku, Tokyo,
 163-1130, Japan
 Phone: +81-3-5323-6620
 Fax: +81-3-5323-6621
 Email: world@glsc.co.jp
 Web: www.glsciences.com

GL Sciences B.V.

De Sleutel 9
 5652 AS Eindhoven
 The Netherlands
 Phone: +31 (0)40 254 95 31
 Email: info@glsciences.eu
 Web: www.glsciences.eu

GL Sciences (ShangHai) Ltd.

Tower B, Room 2003,
 Far East International Plaza,
 NO,317 Xianxia Road,
 Changning District.
 Shanghai, China P.C. 200032
 Phone: +86 (0)21-6278-2272
 Email: contact@glsciences.com.cn
 Web: www.glsciences.com.cn

GL Sciences, Inc. USA

4733 Torrance Blvd. Suite 255
 Torrance, CA 90503
 Phone: 310-265-4424
 Fax: 310-265-4425
 Email: info@glsciencesinc.com
 Web: www.glsciencesinc.com

International Distributors

Visit our Website at www.glsciences.com/distributors