

## **Recommendation to use**

**SureFood® PREP Basic (Art. No. S1052)**

**and**

**SureFood® PREP Advanced (Art. No. S1053)**

This document is intended as a recommended guide for sample preparation. It provides helpful, non binding guidance to support the optimization of your sample results. By following the protocols outlined in the User Manuals, users can typically achieve excellent and reliable outcomes.

# Recommendation to use SureFood® PREP Basic and SureFood® PREP Advanced

June 2026

Matrix	Detection of	Recommended PREP Kit	deviating treatment
Almond nougat	Allergen	PREP Advanced Protocol 1	
Animal feed	Allergen	PREP Advanced Protocol 2	
	Animal		
	GMO		
	Plant		
Biscuits, Butter biscuit	Allergen	PREP Advanced Protocol 1	
	Animal		
	GMO		
	Plant		
Bonbons	Allergen	PREP Advanced Protocol 1	
Brownie	Allergen	PREP Advanced Protocol 1	
Cake	Allergen	PREP Advanced Protocol 1	
Cake baking mix	Allergen	PREP Advanced Protocol 1	
Cereal starch, Potato starch, Corn starch	Allergen	PREP Advanced Protocol 1	add more Lysis Buffer if necessary*
Cereals: Grain bar	Allergen	PREP Advanced Protocol 1	add 300 µl Lysis Buffer
	GMO	PREP Basic	
Cereals: grain bar with chocolate	GMO	PREP Advanced Protocol 2	

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**\*add more Lysis Buffer if necessary:** If the Lysis Buffer has been entirely absorbed during lysis and the sample is no longer able to move freely, is it necessary to add additional buffer to ensure the proper processing.

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Cheese (cream cheese, hard cheese)	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, take 200 mg sample and add 300 µl n-hexane
	Animal		
Cheese Sauce (powder)	Animal	PREP Advanced Protocol 1	
Chili con carne	Animal	PREP Basic	
Chips	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, add 200 µl n-hexane,
Chocolate cream, Chocolate chips nougat creme	Allergen	PREP Advanced Protocol 1	
	GMO		
Cocoa	Allergen	PREP Advanced Protocol 2	
Cocoa mass	Allergen	PREP Advanced Protocol 2	take 100 mg sample
Coffee beans	Allergen	PREP Advanced Protocol 2	
	GMO		
Corn flour	Allergen	PREP Advanced Protocol 1	
Cornflakes	Allergen	PREP Advanced Protocol 2	take 100 mg sample, add 300 µl Lysis Buffer
	GMO		

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Couscous	Plant	Prep Basic	
Cream cheese	Animal	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, take 200 mg sample, add 300 µl n-hexane
Creme fraiche	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, take 200 mg sample, add 200 µl n-hexane
Dark chocolate	Allergen	PREP Advanced Protocol 2	
	GMO		
Raw dough (croissant dough, focaccia dough, pasta, pastry, pizza, potato fritter, potato, puff pastry, shortcrust pastry, sourdough, whole grain pizza dough, wholemeal, yeast dough)	Allergen	PREP Advanced Protocol 1	
Dressing, French Dressing Aioli	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, setting the ph-value, take 200 mg sample, add 200 µl n-hexane
Dried parsnip, onion	Allergen	PREP Advanced Protocol 1	add more Lysis Buffer if necessary

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## Recommendation to use SureFood® PREP Basic and SureFood® PREP Advanced

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Dried herbs	Allergen	PREP Advanced Protocol 2	take 50 mg sample, add 300 µl Lysis Buffer
	GMO	PREP Basic	add 300 µl Lysis Buffer
	Plant		
Falafel	Animal	PREP Basic	elution with 50 µl
Fat, oil, samples with high content of fat (mayonnaise, spread, lard, lecithin, butter, lard, cocoa butter)	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits
	GMO	PREP Basic	
	Plant		
Fish	Animal	PREP Basic	
	Allergen	PREP Advanced Protocol 1	
Flour (of cereals, corn, soy beans, kamut, rapeseed, oat, wheat, millet, buckwheat, similar)	Allergen	PREP Advanced Protocol 1	take 50 mg sample
	GMO	PREP Basic	
	Plant		
Fresh herbs (e.g. chives)	Allergen	PREP Advanced Protocol 1	
	GMO	PREP Basic	
	Plant		

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Fresh vegetables (bean, broccoli, cabbage, carrot, leek, onion, parsnip, peas, potatoes, salad, spinach)	Allergen	PREP Advanced Protocol 1	
	GMO	PREP Basic	
	Plant		
Fruits (e.g. plum, fig, apple)	Allergen	PREP Advanced Protocol 1	
Fruits (e.g. kiwi, papaya, nectarine, berries)	GMO	PREP Basic	
Fruits galantine	Animal	PREP Advanced Protocol 2	take 50 mg sample
Hazelnut paste	GMO	PREP Advanced Protocol 2	
Honey	GMO	PREP Basic	Protocol: DNA extraction from honey using SureFood® PREP Basic
Indian sleeping berry (Ashwagandha Root Extract Granules)	Allergen	PREP Advanced Protocol 2	take 50 mg sample
Instant meal (containing meat)	Animal	PREP Basic	
Instant sauce powder	Allergen	PREP Advanced Protocol 1	
Jam	Allergen	PREP Advanced Protocol 1	
Jelly bears	Animal	PREP Advanced Protocol 1	Deep freezing before homogenization
	Allergen		

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Kelp	Allergen	PREP Advanced Protocol 2	take 50 mg sample
	GMO		
Ketchup, tomato paste, tomato sauce	Allergen	PREP Advanced Protocol 1	take 200 mg sample
Lasagne	Allergen	PREP Advanced Protocol 1	
Linseed	GMO	PREP Basic	Protocol: DNA extraction from linseed containing samples using SureFood® PREP Basic
Liver	Animal	PREP Basic	elution with 200 µl DNA
Marzipan, Persipan	Allergen	PREP Advanced Protocol 1	take 100 mg sample
	Plant	PREP Basic	
Meat, raw, roasted (meatballs, minced meat)	Allergen	PREP Advanced Protocol 1	
Meat-and-bone meal (chicken meal, fish meal)	Animal	PREP Advanced Protocol 2	take 50 mg sample
Chili con carne	Animal	PREP Basic	
Milk powder	Allergen	PREP Advanced Protocol 1	
Milk, soy milk, buffalo milk	Animal	PREP Basic	Pelletize 1 ml; use pellet with 100 µl supernatant, elution with 50 µl

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Milk, soy milk,	Allergen	PREP Advanced Protocol 1	Pelletize 1 ml; use pellet with 100 µl supernatant
Mixed herbs, spice extract, spices (anise, basil, caraway, cardamom, cinnamon, clove, coriander, cumin, curry, dill, dried pepper, garlic, garlic granulate, green pepper, laurel, lovage, marjoram, mustard seed, nutmeg, onion, paprika granulate, paprika powder, parsley, pepper, rosemary, saffron, tomato granulate)	Allergen	PREP Advanced Protocol 2	take 50 mg sample, if necessary add more Lysis Buffer*
	GMO		
Mushrooms, dried	Allergen	PREP Advanced Protocol 2	take 100 mg sample, add 600 µl Lysis Buffer
Mustard seed	Allergen	PREP Advanced Protocol 2	take 50 mg sample
Nuts, nut mash, bar with nuts, peanut, hazelnut roasted; hazelnut creme	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction from high protein samples using SureFood® PREP Basic or SureFood® PREP Advanced
Nut paste (almond, cashew, hazelnut, macadamia, pistachio)	Allergen	PREP Advanced Protocol 1	
Pasta ravioli in spicy sauce, pasta penne Bolognese	Animal	PREP Basic	take 100 mg sample

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Pasta, whole grain	Allergen	PREP Advanced Protocol 1	
Pasta	Plant	PREP Basic	
Pea protein isolate	Allergen	PREP Basic	
	GMO		
Pesto	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits
Pizza	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, take 200 mg sample, add 300 µl n-hexane
Plants in general (sunflower, soya, cotton seed, mustard, wheat, corn)	GMO	PREP Basic	
	Plant		
Poppy	Allergen	PREP Advanced Protocol 1	take 50 mg sample, add 800 µl Lysis Buffer; second centrifugation of the supernatant after the lysis
	GMO	PREP Advanced Protocol 2	
Pork protein	Animal	PREP Basic	
Potato powder, Parsnip ground	Allergen	PREP Advanced Protocol 1	add 300 µl Lysis Buffer
Potatoe powder, (vegetable powder)	GMO	PREP Basic	

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Protein powder, Pumpkin protein, Almond protein	Allergen	PREP Advanced Protocol 2	take 100 mg sample
Psyllium husk	Allergen	PREP Advanced Protocol 1	take 50 mg sample, add 2 ml Lysis Buffer or more if necessary*
Pumpkin seed	Allergen	PREP Advanced Protocol 2	take 100 mg sample
Quinoa	Allergen	PREP Advanced Protocol 1	
Rapeseed cake	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction from high protein samples using SureFood® PREP Basic or SureFood® PREP Advanced
Rapeseed, chia seed, amarantha	GMO	PREP Basic	Protocol: DNA extraction from high protein samples using SureFood® PREP Basic or SureFood® PREP Advanced
Rice, Rice cookies, Rice pudding	GMO Plant	PREP Basic	
Rice cracker	Allergen	PREP Advanced Protocol 2	take 100 mg sample, add more Lysis Buffer if necessary*
Rinse water with sediment	Allergen	PREP Advanced Protocol 1	Pelletize 2 x max. 10 ml; use pellet with 100 µl supernatant
Salad (meat salad, egg salad, carrot salad and more)	Allergen	PREP Advanced Protocol 1	take 200 mg sample

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Salad (patato salat, meat salat)	Animal	PREP Basic	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, take 100 mg sample, add 300 µl n-hexane, eluation with 50 µl
Salt	Allergen	PREP Advanced Protocol 1	
Sauce Hollandaise	Allergen	PREP Advanced Protocol 1	take 200 mg sample
Sausage products (cooked sausage, meat paste, ham and more), white sausage, liver sausage	Animal	Prep Basic	
	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of fat containing samples using n-hexane and SureFood® PREP kits, add 300 µl n-hexane
	Plant	Prep Basic	
Semolina	Allergen	PREP Advanced Protocol 1	
Shiitake Pilze	Allergen	PREP Advanced Protocol 1	
Shortbread	Allergen	PREP Advanced Protocol 1	
Shrimps	Allergen	PREP Advanced Protocol 1	
Soups (creamy)	Allergen	PREP Advanced Protocol 1	take 200 mg sample
Surimi sticks	Allergen	PREP Advanced Protocol 1	

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Swabs	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction of swabs with PREP Advanced protocol 1
Swabs, Wiping sample	Animal	PREP Advanced Protocol 1	Protocol: DNA extraction of swabs with PREP Advanced Protocol 1, elution with 50 µl
Tea (fruit tea, herbal tea)	Allergen	PREP Advanced Protocol 1	
Tofu	Allergen	PREP Advanced Protocol 1	
	GMO	PREP Basic	
Vanilla cream	Allergen	PREP Advanced Protocol 1	take 200 mg sample
Vegetable broth	Allergen	PREP Advanced Protocol 2	take 50 mg sample
Vegetable powder (carrot powder, ginger, rosehip broccoli powder, celery powder, sunflower flour, pumpkin powder, chickpea flour, horseradish powder)	Allergen	PREP Advanced Protocol 2	take 50 mg sample, add more Lysis Buffer if necessary*
Wasabi paste	Allergen	PREP Advanced Protocol 1	take 200 mg sample
	Plant	PREP Basic	take 100 mg sample

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Matrix	Detection of	Recommended PREP Kit	deviating treatment
Wasabi, fresh root	Plant	PREP Advanced Protocol 2	
Wasabi, dried powder	Plant	PREP Basic	take 50 mg sample
Whey powders	Allergen	PREP Advanced Protocol 1	Protocol: DNA extraction from high protein samples with SureFood PREP Advanced
Whole grain pasta	Allergen	PREP Advanced Protocol 1	
Yeast (powder and extract)	Allergen	PREP Advanced Protocol 1	
Yogurt	Allergen	PREP Advanced Protocol 1	take 300 mg sample

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