

Product Testing Solutions
Artificial Saliva

AFNOR NF S91-141 Artificial Saliva

For Testing Biodegradability of Dental Metal Alloys

Artificial Saliva is prepared according to the AFNOR NF S91-141 standard procedure and is intended for testing biodegradability of dental metal alloys. The formulation consists of two parts that are mixed right before use. This minimizes changes in the solution during storage and allows for a longer shelf life. The pH of the solution after mixing is 7.8 +/- 0.1. Artificial Saliva should be stored refrigerated both before and after mixing. Premixed, ready-to-use solution is available upon request.

DIN 53160-1:2010-10 Artificial Saliva

To Determine Colorfastness of Products Intended to be Taken Into the Mouth

Artificial Saliva is prepared according to DIN 53160-1:2010-10 standard procedure. DIN 53160 specifies the method to determine colorfastness of products intended to be taken into the mouth. The formulation consists of two parts that are mixed right before use. This minimizes changes in the solution during storage and allows for a longer shelf life. The solution should be stored refrigerated both before and after mixing. The pH of the solution after mixing is 6.8 +/- 0.1.

Fusayama/Mayer Artificial Saliva

For Testing of Products for Corrosion, Colorfastness and Discoloration

This ready-to-use solution closely resembles the mineral composition of natural saliva and is the most common media used for testing dental metal alloys. This formulation is at pH 4.9 +/- 0.1 and should be stored refrigerated.

(Custom formulations at different pH are available)

Artificial Saliva for Medical and Dental Research

This Artificial Saliva is formulated according to literature references for medical and dental research. This formulation has similar composition to commercially available products used to treat dry mouth and other conditions. This ready-to-use solution contains Sodium Carboxymethyl Cellulose to increase viscosity of the solution and make it behave similar to natural human saliva. This formulation can be stored at room temperature and has pH of 6.75 +/- 0.05. *This solution is only intended for product testing.*

Artificial Saliva for Pharmaceutical Research

Artificial Saliva is formulated according to literature for pharmaceutical research, such as studies of drug dissolution and drug delivery through oral mucosa. This is a ready-to-use formulation that should be stored refrigerated. The pH of the solution is 6.8 +/- 0.1.

ISO 10271-2011 Artificial Saliva

Corrosion Testing for Metallic Material in Dental Devices

This Artificial Saliva is formulated according to ISO 10271-2011 standard procedure. ISO 10271-2011 specifies the method for corrosion testing for metallic material in dental devices. The solution should be stored in the refrigerator and has a 1 year shelf life. The pH of the solution is 2.3.

Artificial Saliva	
Catalog No.	Description
1700-0301	Artificial Saliva, Fusayama/Mayer, Not Stabilized, each (200 mL/bottle)
1700-0306	Artificial Saliva, Fusayama/Mayer, Custom pH, Stabilized, each (200 mL/bottle)
1700-0307	Artificial Saliva, Fusayama/Mayer, Custom pH, Not Stabilized, each (200 mL/bottle)
1700-0309	Artificial Saliva, Fusayama/Mayer, Stabilized, 200mL
1700-0302	Artificial Saliva, AFNOR NF S91-141, 2-Part, Not Stabilized, each (200 mL/bottle)
1700-0303	Artificial Saliva, DIN 53160, 2-Part, Not Stabilized, each (200 mL/bottle)
1700-0304	Artificial Saliva for pharmaceutical research, Not Stabilized, each (200 mL/bottle)
1700-0308	Artificial Saliva, Pharmaceutical Research, Custom pH each (200 mL/bottle)
1700-0305	Artificial Saliva for medical and dental research, Stabilized, each (200 mL/bottle)
1700-0313	Artificial Saliva for corrosion testing for metallic material in dental devices, ISO 10271-2011, Not Stabilized, each (200 mL/bottle)
1700-0314	Artificial Saliva, Modified Fusayama/Mayer, Custom pH up to 6.5, Stabilized, each (200 mL/bottle) Custom formulations available in pH range 3.0 - 6.0 request a Quote: 800-654-3330 or orders@pickeringlabs.com