

Product Data Sheet

**Tween-20 for ELISA and Western**

<b>Cat. #</b> TW-100100	Tween-20 (100%, undiluted) for ELISA, Western, IP etc	<b>Size:</b> 500 ml
<b>Cat. #</b> TW-100110	Tween-20 (50%, convenient to dispense) for ELISA, Western, IP etc	<b>Size:</b> 500 ml

TWEEN 20 is a nonionic detergent widely used in biochemical applications.

TWEEN 20 is a polyoxyethylene sorbitol ester, with a calculated molecular weight of 1,225 daltons, assuming 20 ethylene oxide units, 1 sorbitol, and 1 lauric acid as the primary fatty acid. Fatty acid constituents of this product are determined by transesterification to yield fatty acid methyl esters, which are identified by gas chromatography. Synonyms: Polysorbate 20; PEG(20)sorbitan monolaurate, polyoxyethylenesorbitan monolaurate.

CAS No: 9005-64-5

Appearance: Clear, yellow to yellow-green viscous liquid

Boiling point: >100 °C

Brookfield Viscosity: 370-430 cps (25 °C, neat)

pH of 1% aqueous solution: 5-7

Refractive index: 1.46851

Specific gravity: 1.1

HLB (hydrophile-lipophile balance) value: 16.72

CMC value: 60 mg/l

**Form**

**#TW-100100; 100%, undiluted**

It is supplied undiluted viscous solution. Store at room temp.

TWEEN 20 is miscible in water (100 mg/ml), yielding a clear, yellow solution. It is also miscible with alcohol, dioxane, and ethyl acetate; and is practically insoluble in liquid paraffin and fixed oils.

**Storage/Stability**

Aqueous solutions of polysorbates undergo autoxidation during storage, with changes being catalyzed by light, increased temperature, and copper sulfate. Autoclaving is not recommended without testing for changes in properties. TWEEN 20 may not be stable to autoclaving, particularly with metal cations in buffer solutions. TWEEN 20 is heat sensitive and will darken when exposed to elevated temperatures. Polysorbates have been reported to be incompatible with alkalis, heavy metal salts, phenols, and tannic acid. Polysorbates may reduce the activity of many preservatives. No plastic incompatibilities have been observed

**#TW-100110; 50%, undiluted**

It is supplied 50% solution (v/v, with water). Store at room temp.

Supplied as liquid without any preservatives. Purified protein is supplied as lyophilized powder. It can be dissolved on appropriate buffers (PBS, TBS, at 1-10% w/v). Sodium azide or merthiolate can be added if desired to prevent bacterial growth in Stock solutions. Store solutions at 4°C for short term and -20°C in suitable size aliquots.

**Recommended usage**

Tween-20 is typically used at 0.01-1% for various ELISA or Western blot applications. Dilute as necessary.

*This product is for in vitro research use only.*

**Related items available from ADI**

Catalog#	ProdDescription
80012	High binding ELISA Strips plates (8 wellsx12 strips)
80050	ELISA Plate Coating buffer concentrate (10X)
80060	ELISA Plate Blocking Buffer concentrate (10X) BSA-based
80062	ELISA Plate Blocking Buffer concentrate (10X) milk-based
80070	Antibody and Conjugate Diluent for ELISA concentrate (10X)
80080	Wash buffer concentrate (20X) for ELISA
80081	Phosphate Buffered Saline (PBS, pH 7.4) concentrate (20X)
80091	TMB substrate (1-component) for ELISA
80100	Stop solution for TMB substrate (ELISA) concentrate (10X)
80110	Single solution TMB substrate (membrane) solution for western blot
80160	Rabbit Serum Antibody detection ELISA kit, Qualitative (mouse, goat, sheep, monkey, human kits are also available)
80400-100	Bovine Serum Albumin (BSA, protease-free) for western (makes ~2-L buffer @5% BSA)
80401-250	Blotto for Western/ELISA (non-fat milk, makes ~25-L buffer @5%)
80402-500	Blotto 1 buffer (5% milk, 0.05% tween in TBS buffer) for Western (ready-to-use)
80403-500	Blotto 2 buffer (1% milk, 1% BSA, 0.05% tween in TBS buffer for phosphoproteins) for Western (ready-to-use)
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