



SMARTBUFFERS

Tris-Glycine Buffer (TG) and Tris-Glycine-SDS (TG-SDS) pH 8.3



Features

- Running buffers for protein electrophoresis
- Formulated from analytical grade reagents
- Assured consistency from lot to lot
- Exactly pre-weighed powder mix in pouches
- Dissolve and use in minutes

Product description

Tris-glycine buffer (TG) is the most common running buffer in native (non-denaturing) homogeneous and gradient polyacrylamide gel electrophoresis (PAGE) of proteins. Tris-glycine buffer is also used to make Tris-glycine/20% methanol Western transfer buffer, which is the most frequently used protein transfer buffer for wet blot transfers.

Tris-glycine-SDS buffer (TG-SDS) contains the denaturing agent sodium dodecyl sulphate (SDS). SDS exposure of proteins makes them unfold and become coated with SDS detergent. Protein electrophoresis under denaturing conditions, SDS-PAGE, thus separate the linearised proteins by size.

Medicago's Tris-glycine and Tris-glycine-SDS buffers are supplied as pre-weighed powder mixes in sealed pouches giving 1000 ml or 5000 ml of 0.025 M Tris, 0.192 M glycine with pH 8.3 at 25°C and 0.025 M Tris, 0.192 M glycine, 0.10% SDS with pH 8.3 at 25°C.

Applications

- Protein electrophoresis
- Denatured protein electrophoresis
- Polyacrylamide gel electrophoresis
- Western blotting

Directions for use

Empty one pouch of the Tris-glycine or Tris-glycine-SDS buffer in a laboratory flask or beaker placed on a magnetic stirrer. Add 500 ml deionized water and stir until full dissolution. Adjust the volume up to 1000 ml or 5000 ml, stir until full dissolution and the buffer is ready to use.

Shipping and storage

The Tris-glycine and Tris-glycine-SDS buffers are shipped at room temperature. Store the pouches in a dry place at room temperature. Shelf life is three years.

Tips and hints

If the contents of the pouch is not properly dissolved, make sure:

- the water temperature is 22-25°C
- the buffer is properly stirred
- high quality deionized water is used

Sterilization can be performed by filtration. Filter the buffer solution into a sterile flask through a 0.22 µm filter and keep at +4°C.

Specifications

	Tris-Glycine buffer	Tris-Glycine-SDS buffer
Chemicals	Analytical grade	Analytical grade
Format	Exactly pre-weighed powder mix	Exactly pre-weighed powder mix
Concentration	0.025 M Tris, 0.192 M Glycine	0.025 M Tris 0.192 M Glycine 0.10% SDS
Volume	1000 ml and 5000 ml	1000 ml and 5000 ml
pH	8.3 ± 0.2 at 25°C	8.3 ± 0.2 at 25°C
Shelf life	Three years after production date	Three years after production date



Certifications

Medicago's laboratories and manufacturing site in Uppsala is ISO 9001:2015 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.



Ordering information

Article no.	Product name	Pack size	Solution vol.
12-9122-10	Tris-Glycine buffer 1x pH 8.3	10 pouches	1000 ml/pouch
12-9123-10	Tris-Glycine buffer 1x pH 8.3	10 pouches	5000 ml/pouch
12-9222-10	Tris-Glycine-SDS buffer 1x pH 8.3	10 pouches	1000 ml/pouch
12-9223-10	Tris-Glycine-SDS buffer 1x pH 8.3	10 pouches	5000 ml/pouch