



SERUM PROTEIN DIGITAL REFRACTOMETER

Serum Protein Digital Refractometer – ToronDR™ SP Series

A Digital Refractometer in the ToronDR™ SP Series is designed for rapid screening of colostrum quality and serum protein / immunoglobulin-related content in animal-health workflows. Serum Protein Digital Refractometer – ToronDR™ SP Series is built on the ToronDR™ SP platform and measures colostrum 0–50% and serum protein immune sphere content 0–12 g/dL.

This product is best positioned for veterinary, dairy, and livestock use rather than general clinical chemistry. Published veterinary sources support refractometry as a practical tool for assessing passive immunity transfer and serum total protein / IgG-related status in calves, as well as for evaluating colostrum quality on farm.

Serum Protein Digital Refractometer – ToronDR™ SP Series is a handheld Refractometer designed for fast, direct digital assessment of colostrum and serum-related values. Unlike a general food or industrial refractometer, this model is configured specifically around colostrum percentage and serum protein immune sphere content, which makes it more relevant to calf management, dairy operations, and veterinary screening.

This kind of Digital Refractometer is useful because it gives a quick field result without requiring a full laboratory immunoassay for every sample. Veterinary literature supports refractometry as an effective on-farm tool for monitoring colostrum quality and evaluating passive transfer success in calves, because serum total protein and Brix-style refractometry correlate with immunoglobulin status.

APPLICATIONS

Serum Protein Digital Refractometer – ToronDR™ SP Series Application

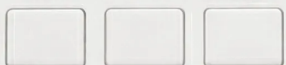
- Colostrum quality screening: the ToronDR™ SP for colostrum 0–50% measurement. That makes it suitable for dairy and livestock operations that want a fast screening tool for colostrum quality before feeding newborn animals. Published veterinary sources support refractometry as a practical method for estimating colostrum quality on farms.

- Serum protein and passive transfer assessment: serum protein immune sphere content 0–12 g/dL. In practice, refractometer-based serum total protein measurement is commonly used to support assessment of transfer of passive immunity in calves. Cornell's veterinary guidance explains that refractometers measure total serum protein, which correlates with IgG in newborn calves after colostrum intake.
- Veterinary and livestock screening: this model is well suited to veterinary clinics, dairy farms, calf-rearing programs, and animal-health support teams that need a portable screening tool rather than a central-lab workflow. Peer-reviewed studies have evaluated digital and optical refractometers as useful tools for assessing passive immunity transfer in calves.



SD1 26.2°C
0.8%

READ CAL SCALE



TORONTECH

ToronDR™ SP Series
Serum Protein Digital Refractometer

FEATURES

Serum Protein Digital Refractometer - ToronDR™ SP Series Key Features

- Handheld Digital Refractometer configured for colostrum and serum protein immune sphere content screening.
- Measurement ranges listed by the supplier as colostrum 0–50% and serum protein immune sphere content 0–12 g/dL.
- Positioned under the supplier's Clinical DR category.
- Supplied as an ATC Digital Refractometer.
- Standard package includes 1× ATC Digital Refractometer, 1× mini screwdriver, 1× protective carrying case, and 1× manual.
- Well suited to dairy, calf, and veterinary screening workflows where rapid field evaluation is preferred.

THEORY & METHOD

Theory and Method

A Digital Refractometer measures how light changes as it passes through a liquid sample, then converts that optical response into a digital value. In the ToronDR™ SP Series, that refractometric principle is applied to colostrum and serum protein immune sphere content using a scale configuration intended for animal-health screening.

Veterinary references explain that refractometry is commonly used for indirect assessment of immunity transfer because serum total protein is closely related to immunoglobulin status after colostrum intake. This makes a digital refractometer a practical field tool for rapid screening, even though formal laboratory assays remain the reference methods for direct IgG quantification.

TECHNICAL SPECIFICATIONS

Serum Protein Digital Refractometer - ToronDR™ SP Series Technical Specification

Specification	Serum Protein Digital Refractometer - ToronDR™ SP Series
Model basis	ToronDR™ SP
Product type	Digital Refractometer / Clinical DR
Colostrum range	0-50%
Serum protein immune sphere content range	0-12 g/dL
Package contents	1× ATC Digital Refractometer, 1× mini screwdriver, 1× protective carrying case, 1× manual



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