

Analysis of Oral Calf Electrolytes

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	Sodium (mM/L)	Amino acid	Osmolality (mOsm/L)	Alkalinizing Agent (mM/L)	Comments
Dr. Geof Smith's Recommendations	90 to 130	Glycine	400-600	Acetate 50 to 80	
Advance Arrest®	46	None	245	Bicarbonate 12 mM/L	Sodium concentration is too low and minimal alkalinizing ability. Not a good choice for calves with diarrhea
Blue Ribbon®	144	Glycine	390	None	No alkalinizing agent present - would not be a good choice for calves with diarrhea
BlueLite® Replenish^M	90	Glycine	400	Acetate 59 mM/L and Sodium Propionate 21 mM/L	Very good oral electrolyte solution for use in calves
Bovi-Mate ORS®	130	Glycine	600	Acetate 60 mM/L and Propionate 30 mM/L	Good oral electrolyte - osmolality likely too high to recommend mixing with milk
Bounce Back®	136	Glycine	573	Bicarbonate 48 mM/L	Adequate oral electrolyte for calves - better choices exist
Calf Quencher®	142	None	731	Bicarbonate 86 mM/L	Although this product could be used in calves, it has a very high osmolality (hypertonic) and may worsen diarrhea
Deliver®	67	Glycine	305	Bicarbonate 36 mM/L	Sodium concentration is very low - this product would also have a very weak alkalinizing ability. Also contains dia-line (psyllium)
Diaque®	90	Glycine	377	Bicarbonate 25 mM/L and Acetate 12 mM/L	Good oral electrolyte solution for use in calves
ElectroLife Renew®	100	None	360	Acetate 60 mM/L	Adequate oral electrolyte for calves
Entrolyte HE®	105	Glycine	739	Bicarbonate 80 mM/L	Osmolality is too high - which can worsen diarrhea. High osmolality solutions also slow stomach (abomasal) emptying and can lead to bloat.
EPIC®	92	Glycine	360	Acetate 52 mM/L	Good oral electrolyte for use in calves

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Dr. Geof Smith's Recommendations	90 to 130	Glycine	400-600	Acetate 50 to 80	
Hydrafeed®	110	Glycine	380	Bicarbonate 80 mM/L	Bicarbonate based which is not ideal - but could potentially be used in calves with diarrhea
Hydralyte®	90	Glycine	614	Acetate 75 mM/L	Good oral electrolyte for calves - the high osmolality may cause bloat in some cases - would not want to mix with milk
Land O Lakes® Base plus Add Pack	119	Glycine	455	Acetate 51 mM/L and Citrate 10 mM/L	Very good oral electrolyte for use in calves
Land O Lakes® Complete	121	Glycine	490	Bicarbonate 38 mM/L	Adequate electrolyte - acetate based products are preferred however
Resorb®	75	Glycine	315	None	Sodium concentration is too low and no alkalinizing agent present - would not be a good choice for use in calves
Revityte®	184	Glycine	577	Bicarbonate 110 mM/L	Sodium concentration too high - can cause Sodium toxicity in calves
VitaLyte Plus®	150	Glycine	527	Bicarbonate 80 mM/L	Sodium slightly high - may promote salt toxicity - OK electrolyte but not ideal - would not be mixable in milk