



Product Group	Product	Source	Applications				
			Fermentation for Pharma	Diagnostic	Veterinary	Cosmetics	Tannery
Costantino Series Opotherapeutic Products	Liver Extract 20 mcg/g B12 Bovine	Beef liver			■		
	Liver Extract 20 mcg/g B12 Swine	Pork liver			■		
	Liver Extract NFXI Swine	Pork liver			■		
	Liver Extract liquid flavouring agent	Pork liver			■		
	Liver Powder	Pork liver			■		
	Mucosa Extract	Pork stomach			■		
	Spleen Extract	Pork spleen			■		

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End users are directed to perform proprietary tests to determine suitability and performance for specific applications. The informations and results contained in this technical data sheet are susceptible to modifications at any time, without prior warning.



Product	Loss on drying	Sulphated ashes	pH (5% sol)	TN	AN	Fat	Dry residue
	%	%		%	%	%	%
Liver Extract 20 mcg/g B12 Bovine	3,1	5,6	4,5	11,3	4,5	< 1	n.a
Liver Extract 20 mcg/g B12 Swine	5,4	5,1	4,5	12,1	4,9	< 1	n.a
Liver Extract NFXI Swine	4,2	5,8	4,6	11,8	4,6	< 1	n.a
Liver Extract liquid flavouring agent	n.d.	n.d.	5,4	0,6	n.d.	-	> 5
Liver Powder	4,4	7,5	5,5	10,6	2,2	9,6	n.a.
Mucosa Extract	3	7,2	5,1	12,8	4,5	< 1	n.a.
Spleen Extract	3,6	7,9	4,8	12,9	5,8	< 1	n.a.

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Product	Aspartic Acid	Glutamic Acid	Alanine	Arginine	Fenilalanine	Glycine	Hydrossiproline	Isoleucine	Histidine	Leucine
Liver Extract 20 mcg/g B12 Bovine	72	103	54	35	36	50	n.d.	34	83	65
Liver Extract 20 mcg/g B12 Swine	72	103	54	35	36	50	n.d.	34	83	65
Liver Extract NFXI Swine	82	112	52	29	40	50	n.d.	38	68	75
Liver Extract liquid flavouring agent	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Liver Powder	56	110	37	38	30	37	5	24	22	57
Mucosa Extract	61	100	52	52	29	82	n.d.	29	24	53
Spleen Extract	75	120	60	33	33	69	n.d.	29	68	67

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Product	Lysine	Methionine	Proline	Serine	Tyrosine	Triptofano	Threonine	Valine	Total Amino Acids	Free Amino Acids
Liver Extract 20 mcg/g B12 Bovine	58	3	42	33	7	n.d.	34	49	756	n.d.
Liver Extract 20 mcg/g B12 Swine	58	3	42	33	7	n.d.	34	49	756	n.d.
Liver Extract NFXI Swine	53	16	41	18	6	n.d.	32	52	763	n.d.
Liver Extract liquid flavouring agent	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Liver Powder	38	11	31	30	18	n.d.	28	35	605	n.d.
Mucosa Extract	46	15	51	36	15	n.d.	31	37	713	n.d.
Spleen Extract	52	16	45	30	14	n.d.	29	44	784	n.d.

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