



LABORATORIO DEL ITGE.

C/LA CALERA, 1. 28760 -TRES CANTOS (MADRID) Tf. 8032200. FAX 8036200

INFORME DE LABORATORIO Nº 98/099		Hoja 1 de 5
Solicitante: D ^a . Rosa Mediavilla López Dirección: Dirección de Geología ITGE.		
Teléfono:		Fax:
Fecha recepción: 18/03/98		Fechas de ensayo: 03/04-25/05/1998
Muestreo: A cargo del solicitante		
Procedimiento/s de ensayo: - ANALISIS POR DIFRACCION DE RAYOS X. Metodo del Polvo cristalino y medida en equipo Philips PW-1700. Tubo de Cobre, Monocromador de Grafito y Rendija automatica. Se ha trabajado a 40Kv y 40mA, efectuandose agregado orientado de cada una de las muestras, sometiendose a pruebas de hinchamiento con Etilenglicol y de colapsamiento a 550°C. Se adjuntan diagramas de Polvo, y de agregado orientado(A), conjuntamente con Etilenglicol (E) y Termico 550°C(T) - ANALISIS GRANULOMETRICO. De 2 a 4000 µm. Tamizado y Cyclosizer.		
Observaciones: Se adjuntan Diagramas de DRX y Curvas granulometricas		
Los resultados expuestos afectan en exclusiva a las muestras sometidas a ensayo. La reproducción parcial de este informe sólo podrá realizarse con la autorización escrita del Laboratorio del ITGE.		
Fecha: Tres Cantos, 25 de Mayo 1998 El Coordinador General Laboratorios  		
Fdo., Juan Antonio Martín Rubí		

Las muestras quedarán a disposición del solicitante durante un periodo de tres meses siguientes a la emisión de este informe, a partir de los cuales podrán ser eliminadas.



IDENTIFICACIÓN DE MUESTRAS

Registro del Cliente

Registro del Laboratorio

9001	98/099-01
9002	98/099-02
9003	98/099-03
9004	98/099-04
9005	98/099-05
9006	98/099-06
9007	98/099-07
9008	98/099-08
9009	98/099-09
9010	98/099-10
9011	98/099-11
9012	98/099-12
9013	98/099-13
9014	98/099-14
9015	98/099-15
9016	98/099-16
9017	98/099-17
9018	98/099-18
9019	98/099-19
0101	98/099-20
0102	98/099-21
0103	98/099-22
0104	98/099-23
0105	98/099-24
0106	98/099-25
0107	98/099-26
0108	98/099-27
0109	98/099-28
0110	98/099-29
0111	98/099-30
0112	98/099-31
0113	98/099-32





ANALISIS POR DIFRACCION DE RAYOS X

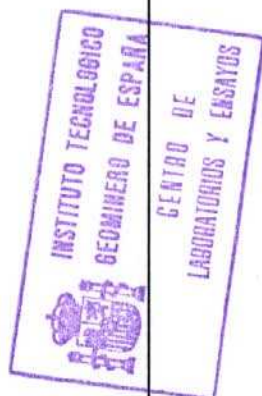
MUESTRA	MINERAL PRINCIPAL	OTROS MINERALES	CONTENIDO ARCILLA(*)	ARCILLA PRINCIPAL	OTRAS ARCILLAS
9001	CALCITA	CUARZO	-----	-----	-----
9002	CUARZO	FELDESPATOS	MEDIO/ALTO	MICA	ESMECTITA, CAOLIN
9003	CUARZO, FELDESP. POTASICO	PLAGIOCLASAS, DOLOMITA	MEDIO	MICA, ESMECTITA	-----
9004	YESO	CUARZO, CALCITA	MEDIO/BAJO	MICA, CAOLIN	ESMECTITA
9005	CUARZO	CALCITA, YESO	MEDIO/ALTO	MICA	CAOLIN, CLORITA (1)
9006	YESO	CALCITA	-----	-----	-----
9007	CUARZO	CALCITA	ALTO	SEPIOLITA	MICA
9008	CALCITA	CUARZO, YESO (TRAZAS)	-----	-----	-----
9009	CUARZO	FELDESPATOS	MEDIO/BAJO	MICA	CAOLIN, (2)
9011	CUARZO, CALCITA	FELDESP. POTASICO	TRAZAS	MICA, PLYGORSKITA	-----
9012	CALCITA	-----	TRAZAS	MICA, PLYGORSKITA	-----
9015	CUARZO	YESO, DOLOMITA	MEDIO	MICA	CAOLIN, CLORITA(1), (3)

(*) Contenido estimado por los Diagramas de polvo y Agregado Orientado. Puede estar afectado por la cristalinidad de las arcillas o por la presencia de compuestos arcillosos en estado de geles no detectables por DRX.

(1) MINERAL DE 14 Å NO HINCHABLE CON ETILENGLICOL Y NO COLAPSABLE A 550°C

(2) SE DETECTA UNA ARCILLA POCO CRISTALIZADA, POSIBLE ESMECTITA, AUNQUE NO SE DESCARTA LA PRESENCIA DE SEPIOLITA

(3) POSIBLE PRESENCIA DE PLYGORSKITA (PICO A 10.5 Å)





MUESTRA	MINERAL PRINCIPAL	OTROS MINERALES	CONTENIDO ARCILLA	ARCILLA PRINCIPAL	OTRAS ARCILLAS
9016	CUARZO, FELDESP. POTÁSICO	PLAGIOCLASAS, DOLOMITA	MEDIO	MICA, CAOLIN	CLORITA (1)
9017	CUARZO	YESO, DOLOMITA	MEDIO	MICA, CAOLIN	ESMECTITA, CLORITA (1)
9018	CUARZO	FELDESPATOS	MEDIO/ALTO	MICA, CAOLIN	ESMECTITA
9019	YESO	-----	-----	-----	-----
0101	CUARZO	FELDESPATOS, YESO	MEDIO	MICA	CAOLIN
0102	CUARZO	YESO	MEDIO/ALTO	MICA	CAOLIN, ESMECTITA
0103	CUARZO	FELDESPATOS	MEDIO/ALTO	MICA	CAOLIN, ESMECTITA
0104	CUARZO	FELDESPATOS, CALCITA	MEDIO/ALTO	MICA	CAOLIN, ESMECTITA
0105	CUARZO, MAGNESITA	YESO, FELDESPATOS	MEDIO/ALTO	MICA, CAOLIN, ESMECTITA	-----
0106	CUARZO	YESO, FELDESPATOS	MEDIO	MICA	CAOLIN, ESMECTITA
0107	CUARZO	FELDESPATOS, YESO	ALTO	MICA, ESMECTITA	CAOLIN, VERMICULITA(4)
0108	CUARZO	FELDESPATOS, CALCITA, DOLOMITA, YESO	MEDIO	MICA, ESMECTITA	CAOLIN
0109	YESO	CUARZO	MEDIO	MICA, ESMECTITA	CAOLIN
0110	YESO	CUARZO	MEDIO/BAJO	MICA	CAOLIN, ESMECTITA
0111	YESO	CUARZO, FELDESPATOS	MEDIO	MICA, ESMECTITA	CAOLIN
0112	YESO	-----	TRAZAS	MICA	-----
0113	YESO	-----	TRAZAS	MICA	-----

(1) Pico a 14 Å no hinchable con Etilenglicol y no colapsable a 550°C. (4) No hinchamiento con Etilenglicol y colapsamiento a 550°C





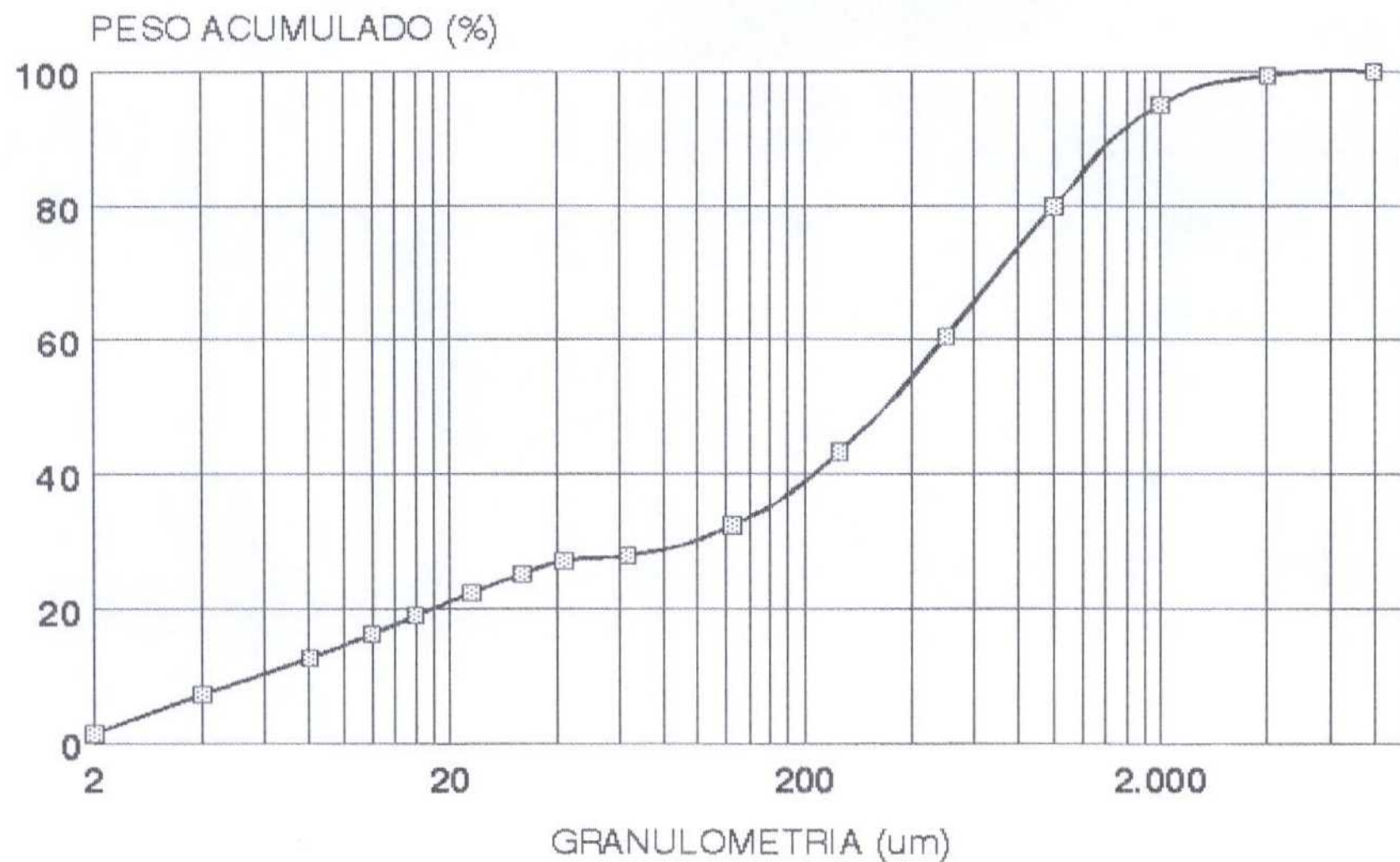
Análisis Granulométrico por Tamizado

Tamaño en μm	Referencia de las muestras		
	9003	9011	9016
+ 8000	--	--	--
+ 4000	0,59	1,03	--
+ 2000	4,37	1,70	0,06
+ 1000	15,16	1,47	0,24
+ 500	19,38	4,16	2,92
+ 250	17,18	27,42	19,32
+ 125	11,06	28,99	29,79
+ 63	4,30	9,10	10,64
+ 42	0,84	1,31	1,12
+ 32	1,96	1,83	2,60
+ 23	2,80	3,40	2,96
+ 16	3,35	2,87	3,33
+ 12	2,80	2,35	3,70
+ 8	3,63	3,92	5,55
+ 4	5,31	6,53	9,26
+ 2	5,87	2,61	4,81
- 2	1,40	1,31	3,70
TOTAL	100,00	100,00	100,00
Peso (g)	2.400	2.800	2.490
Humedad (%)	9,90	7,85	2,17
Densidad (Kg/m^3)	2.326	2.532	2.439



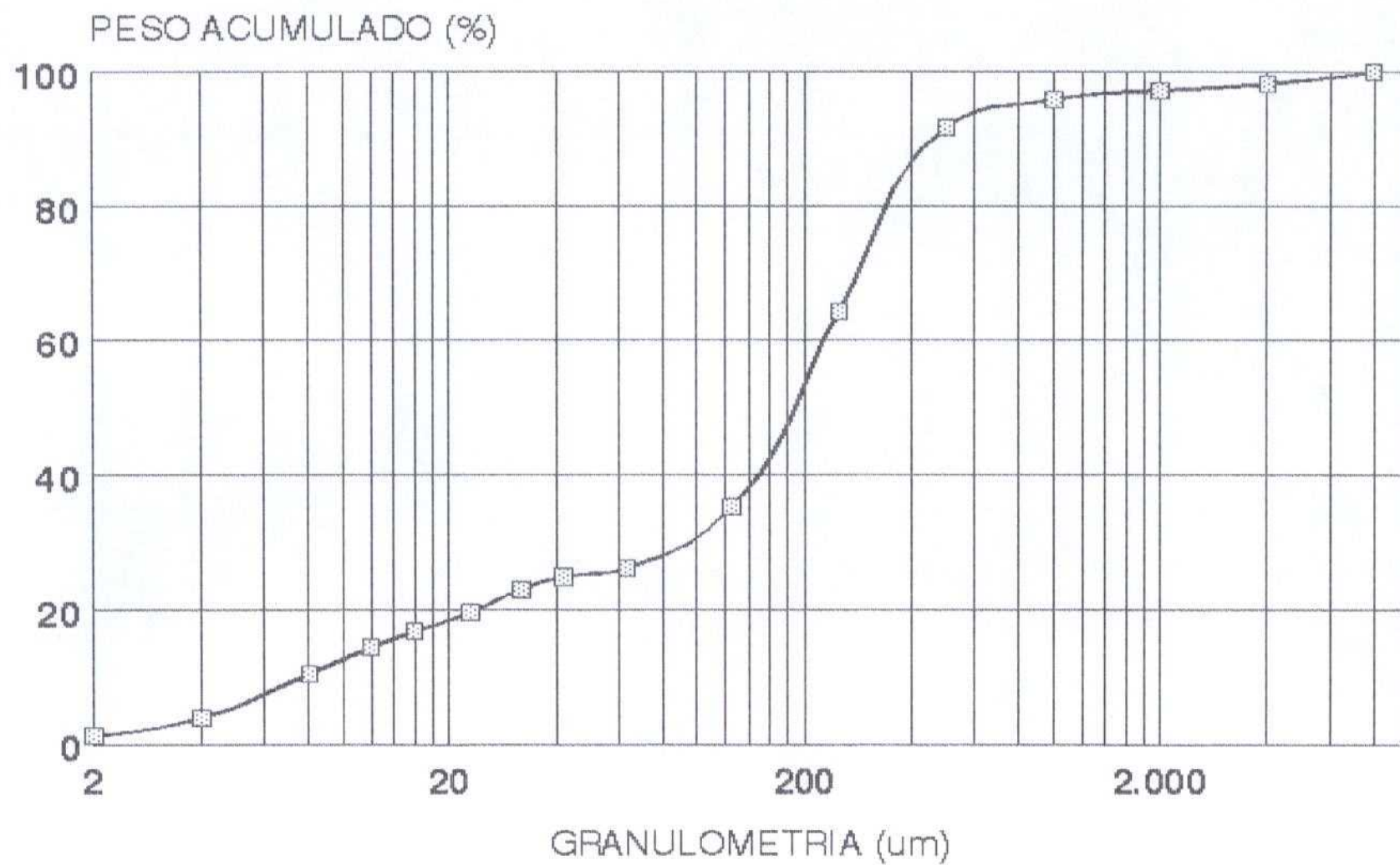
CURVA GRANULOMETRICA

MUESTRA: 9003-03



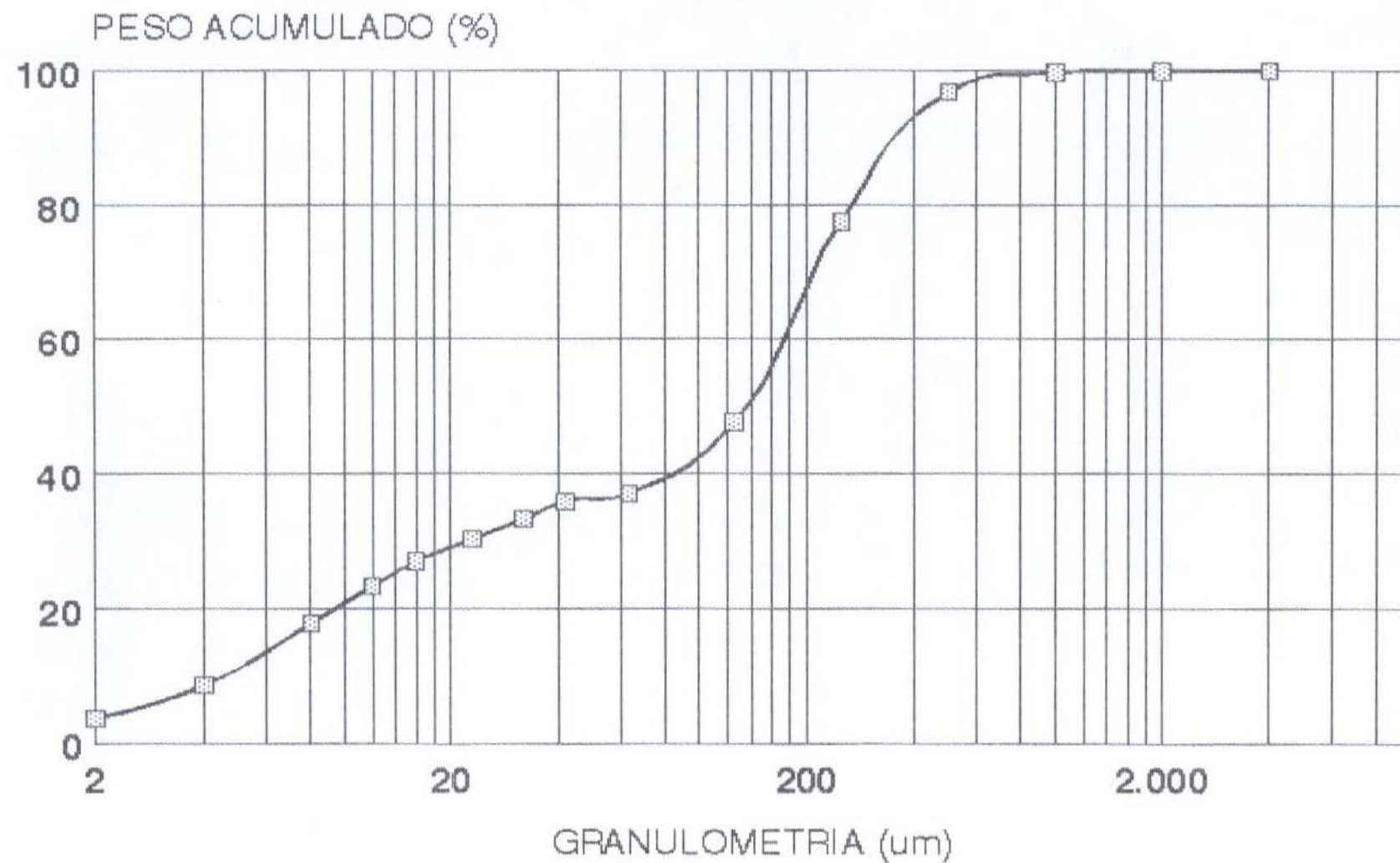
CURVA GRANULOMETRICA

MUESTRA: 9011-11



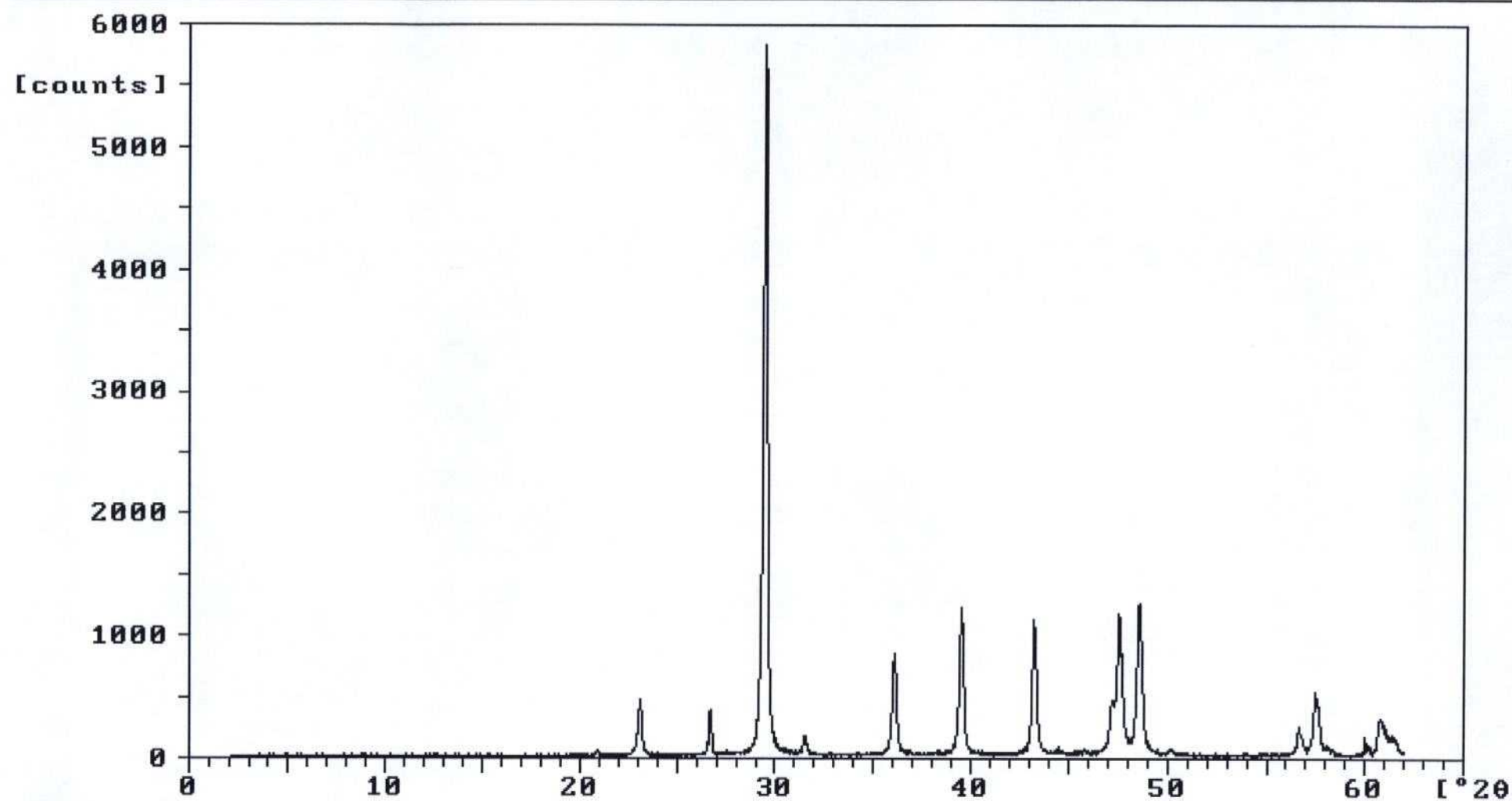
CURVA GRANULOMETRICA

MUESTRA: 9016-16



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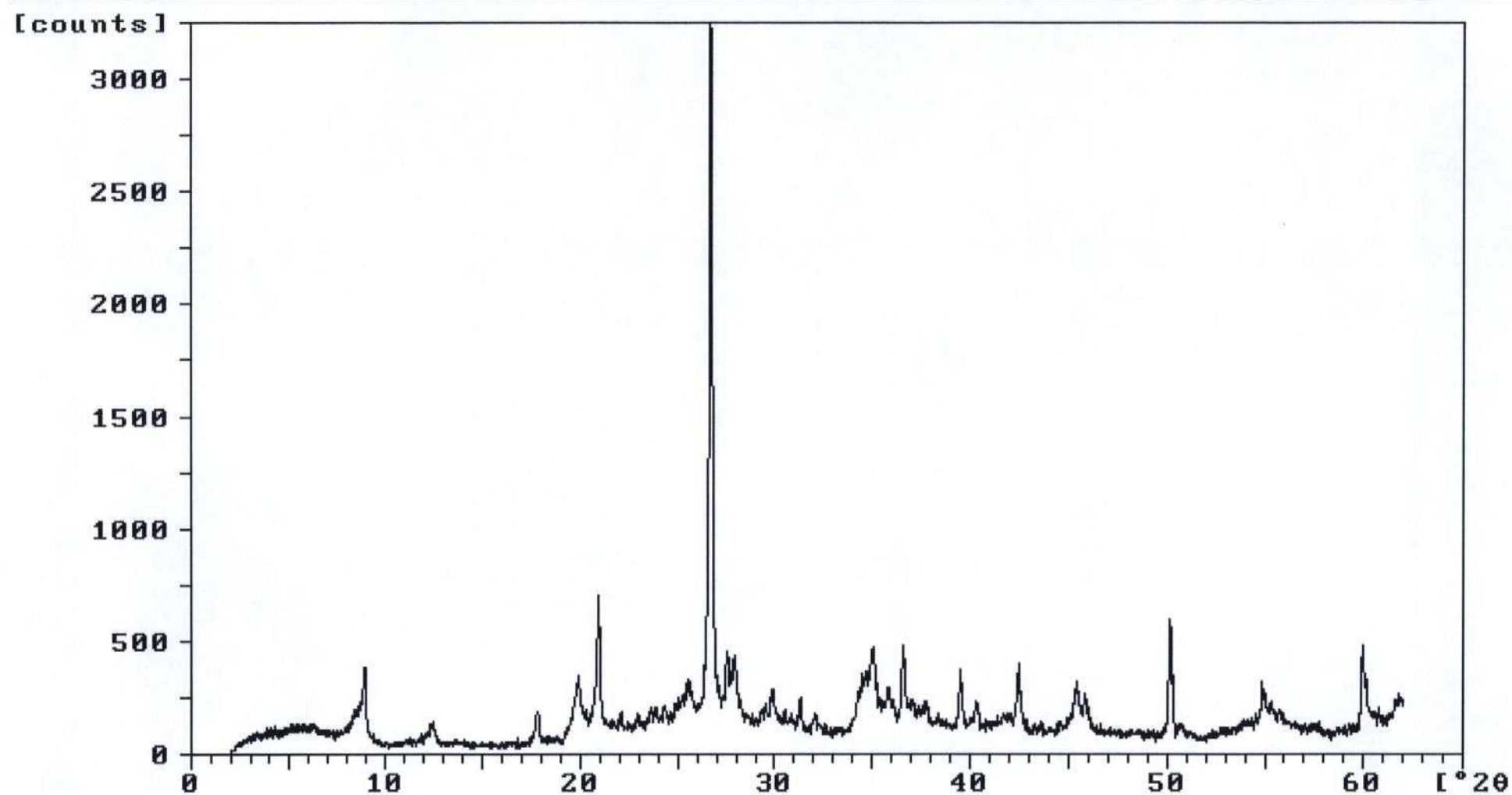
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98099-1.RD

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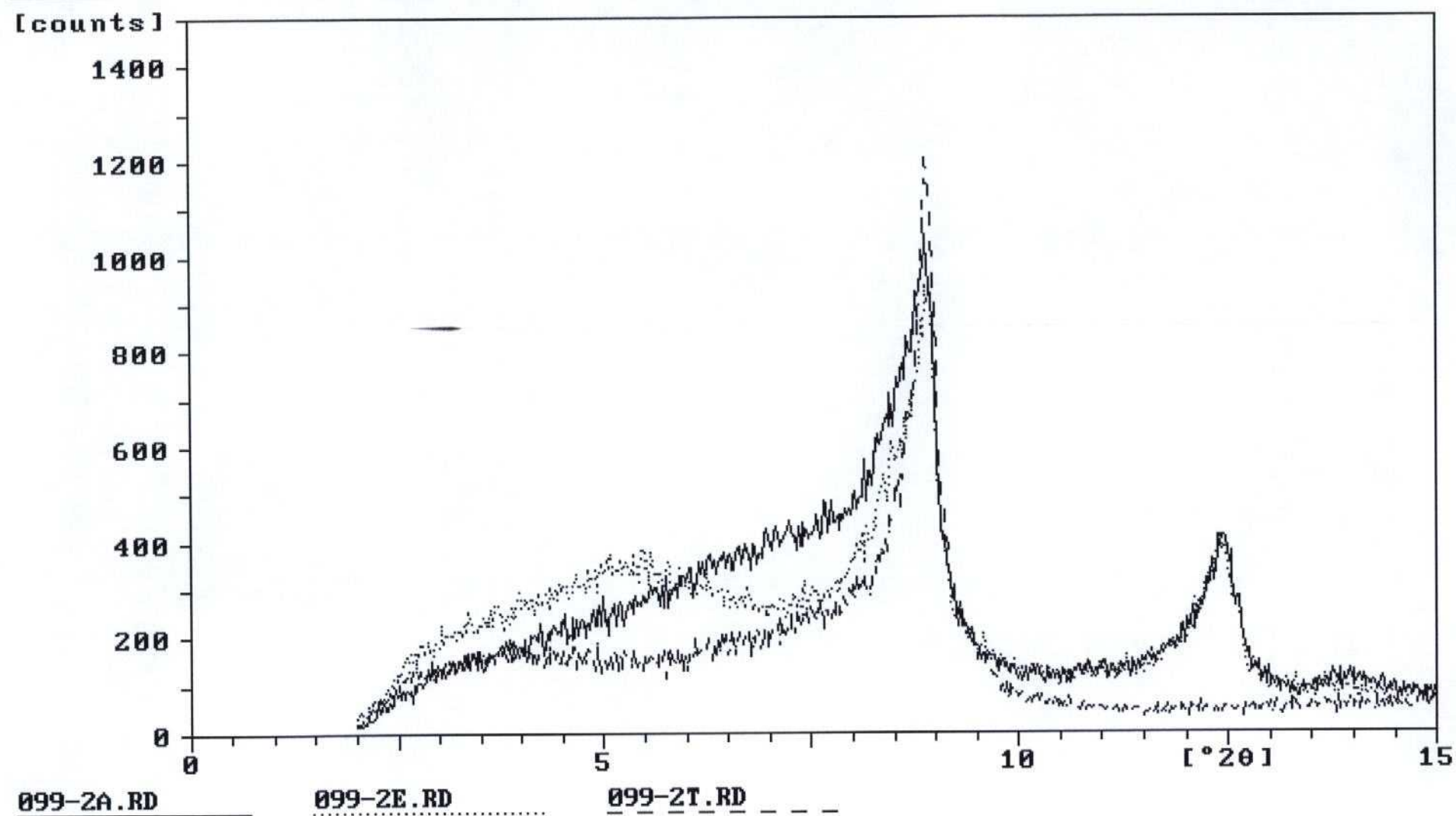
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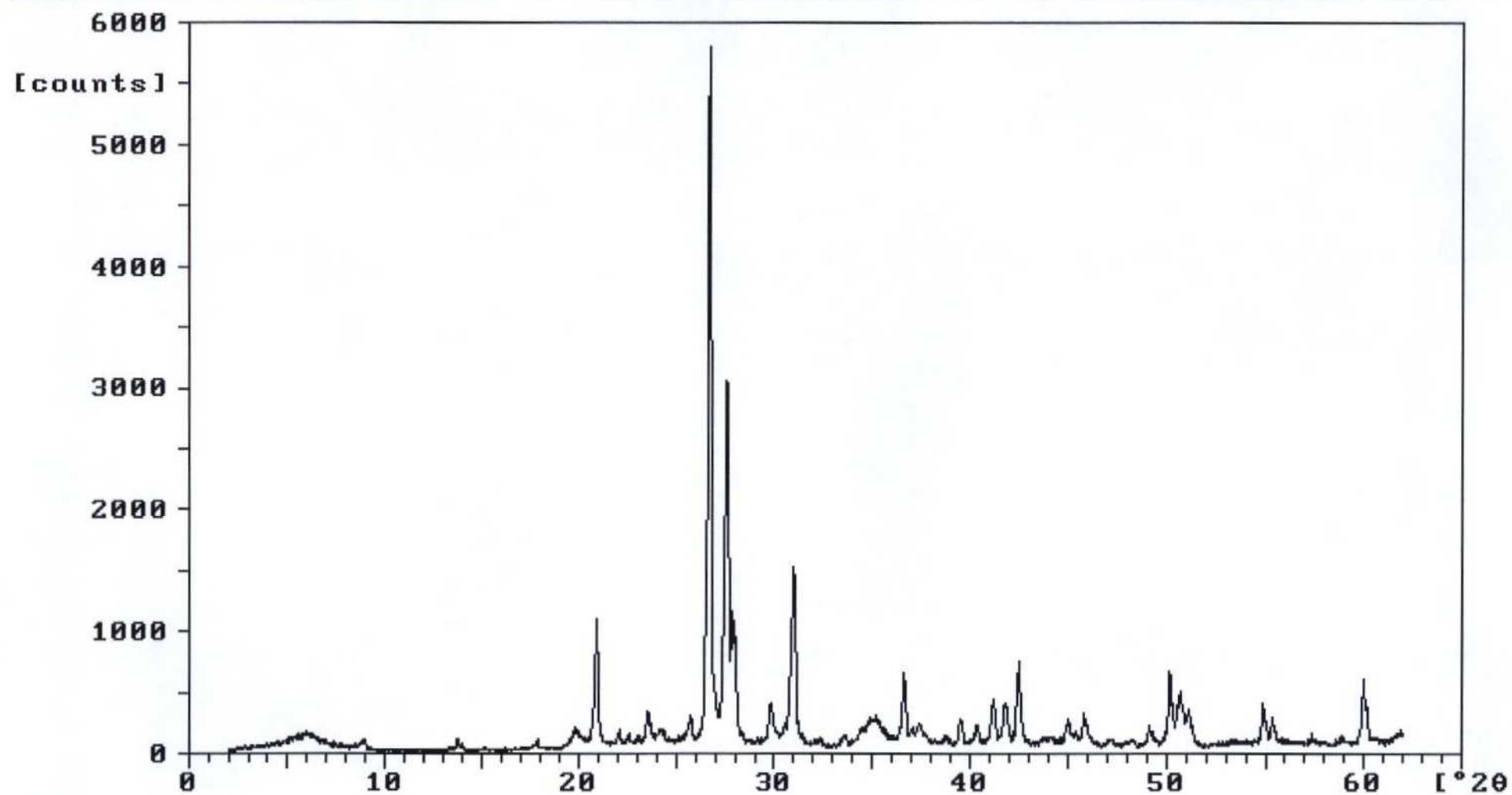
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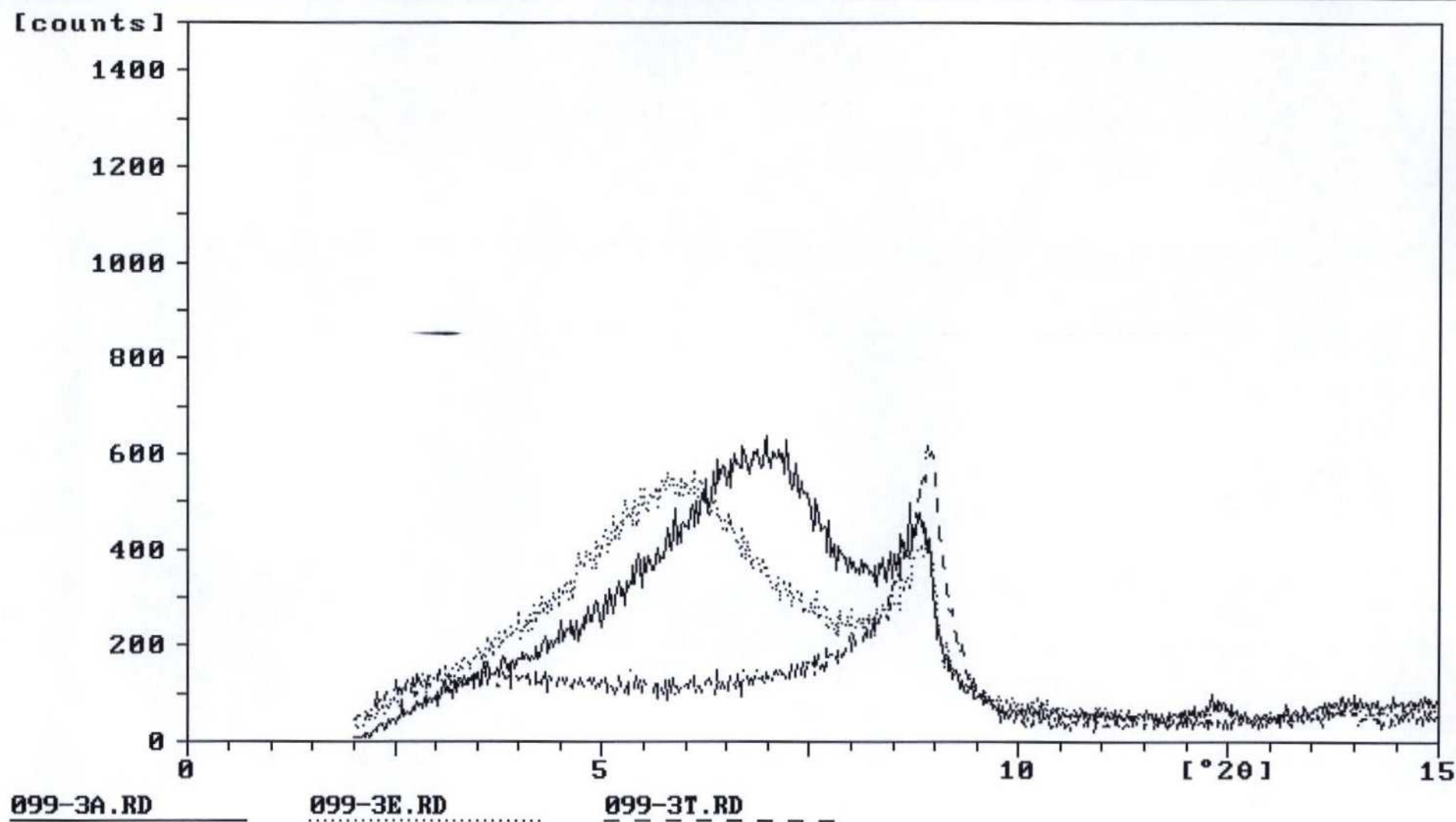
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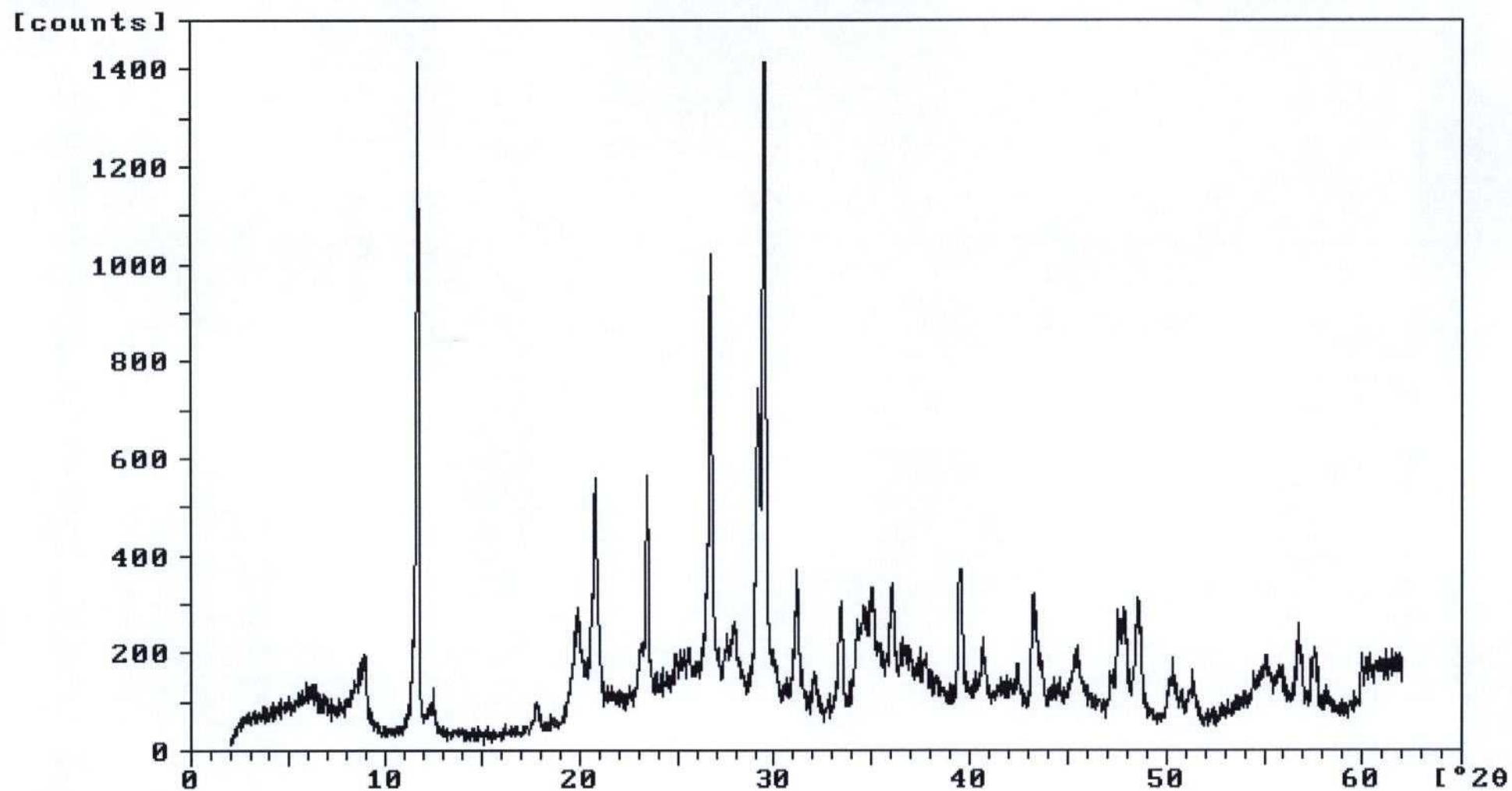
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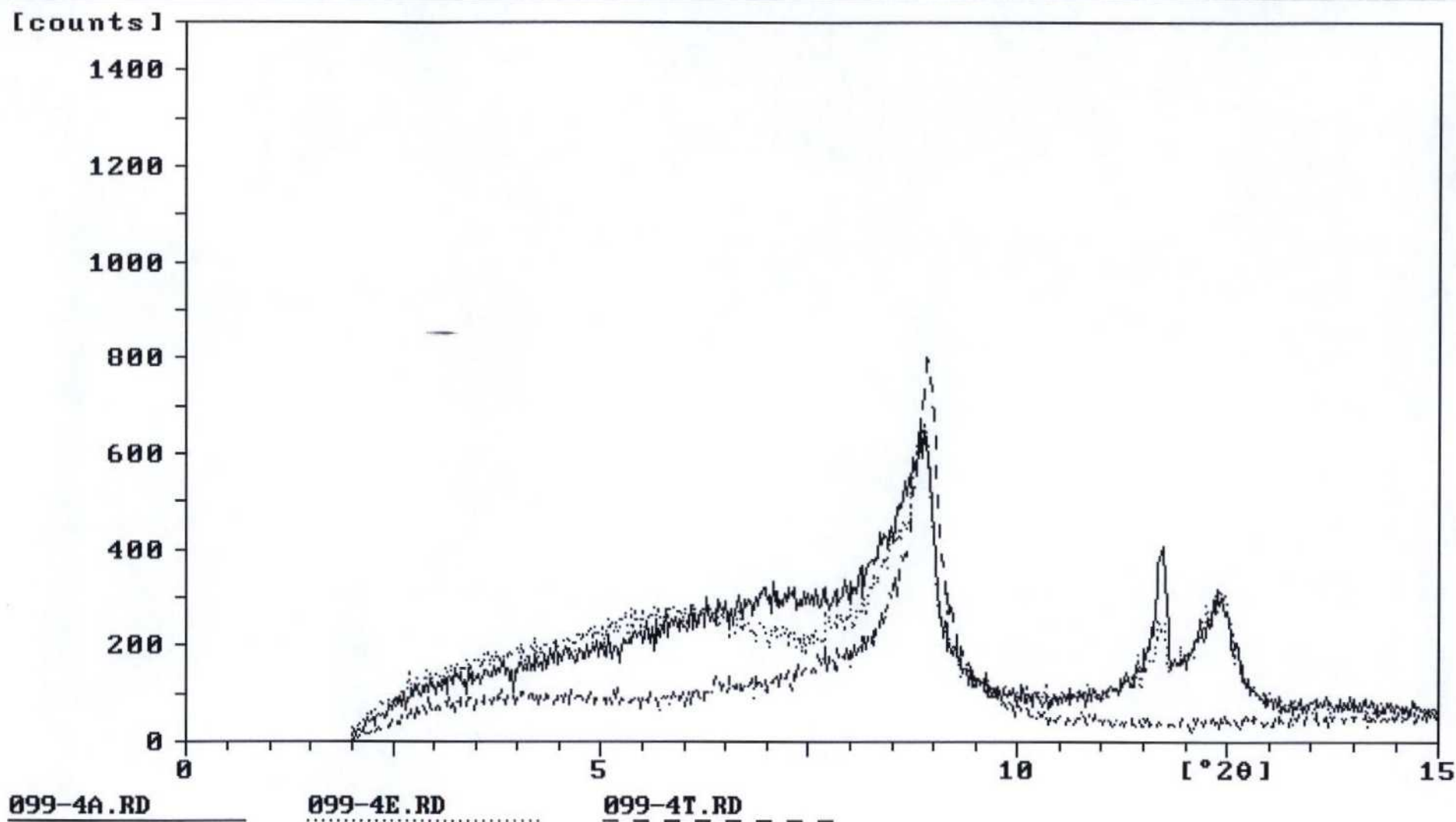
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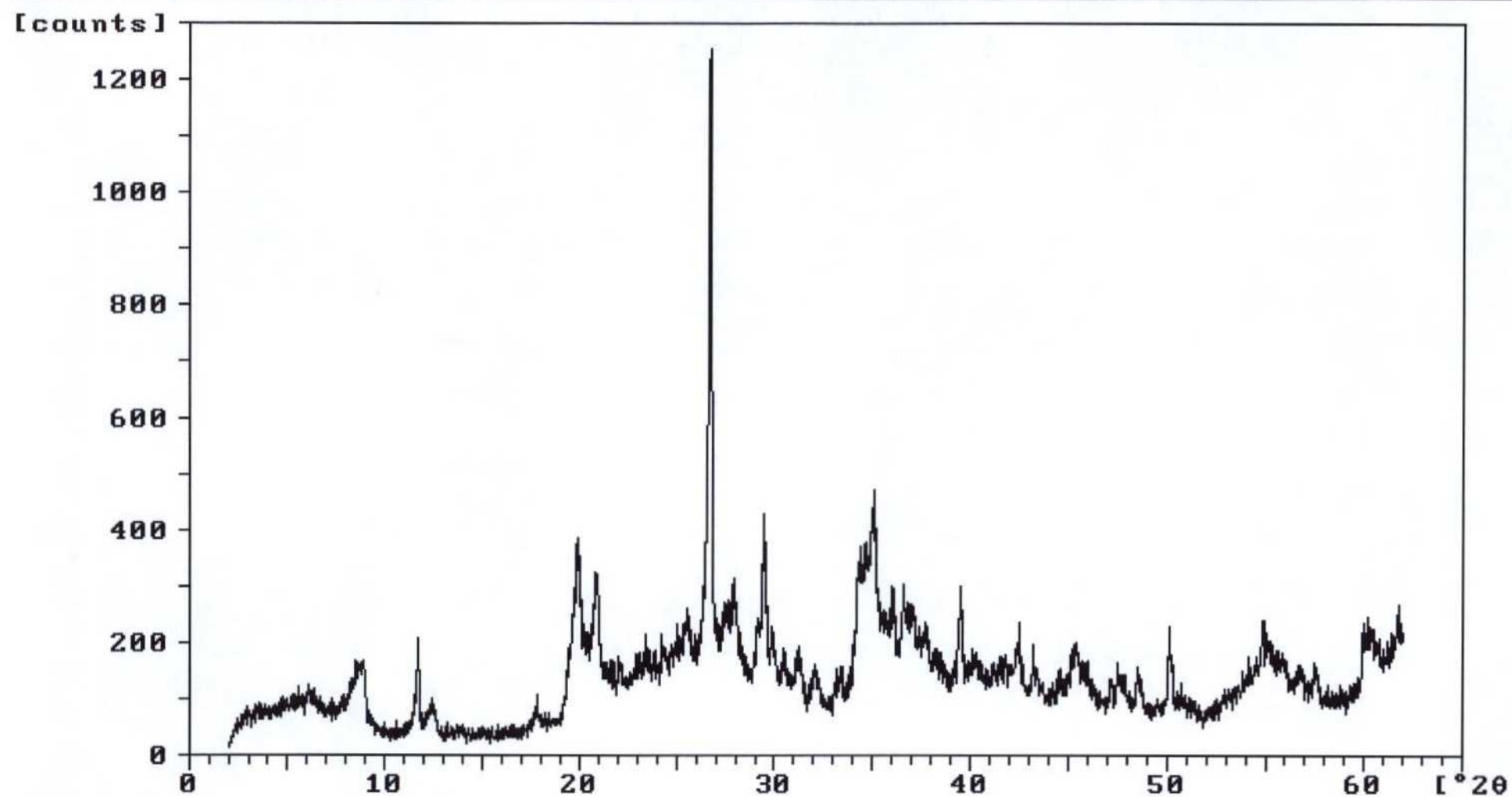
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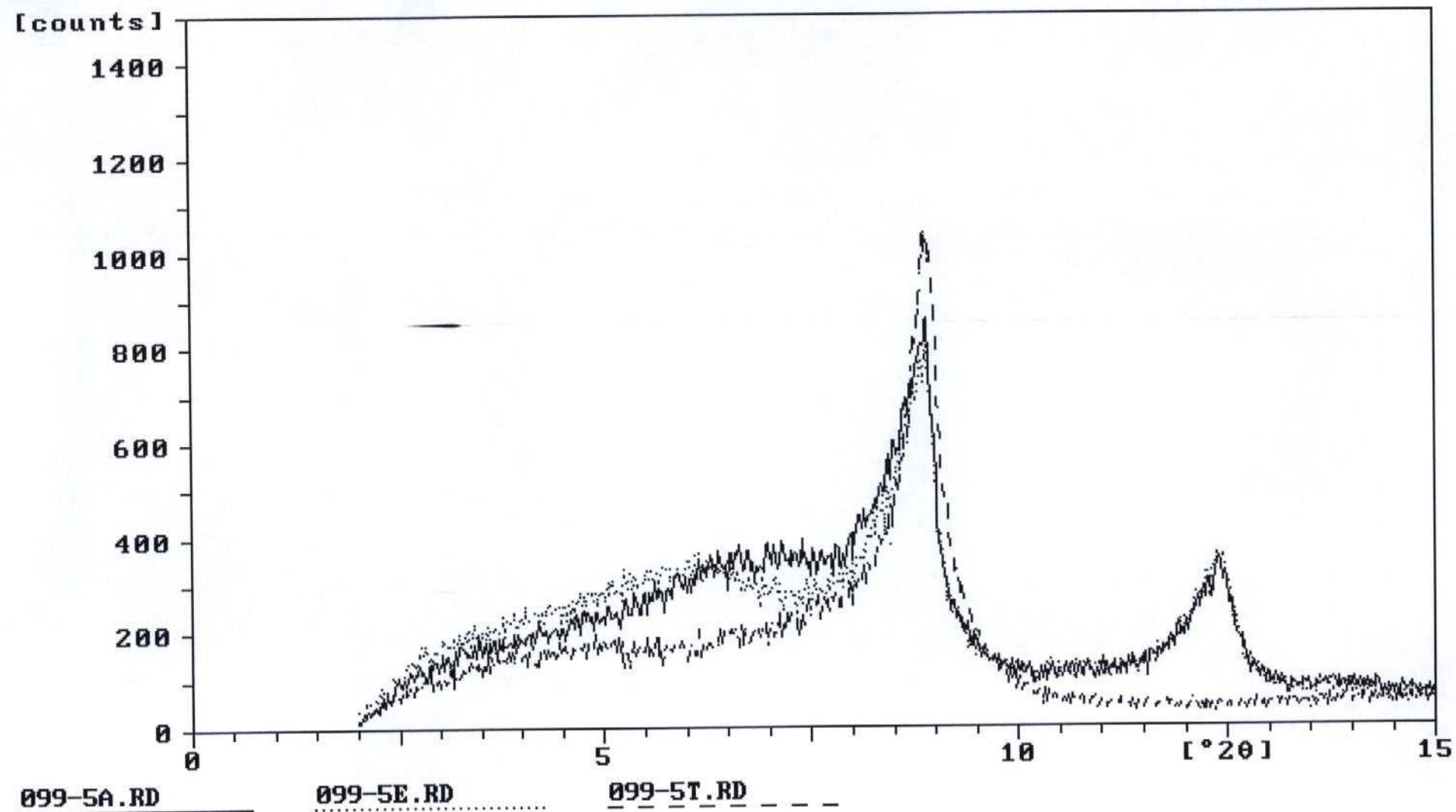
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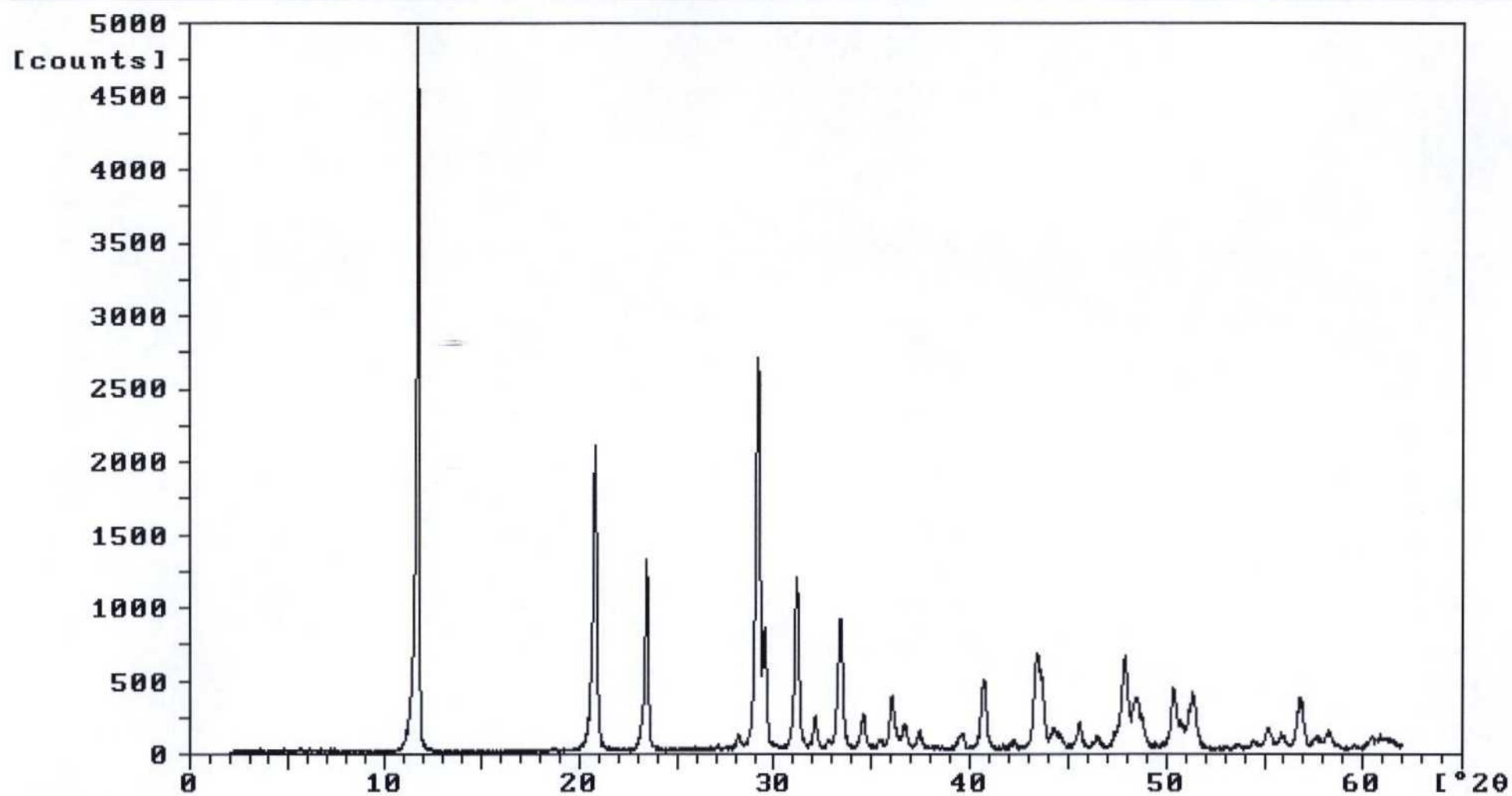
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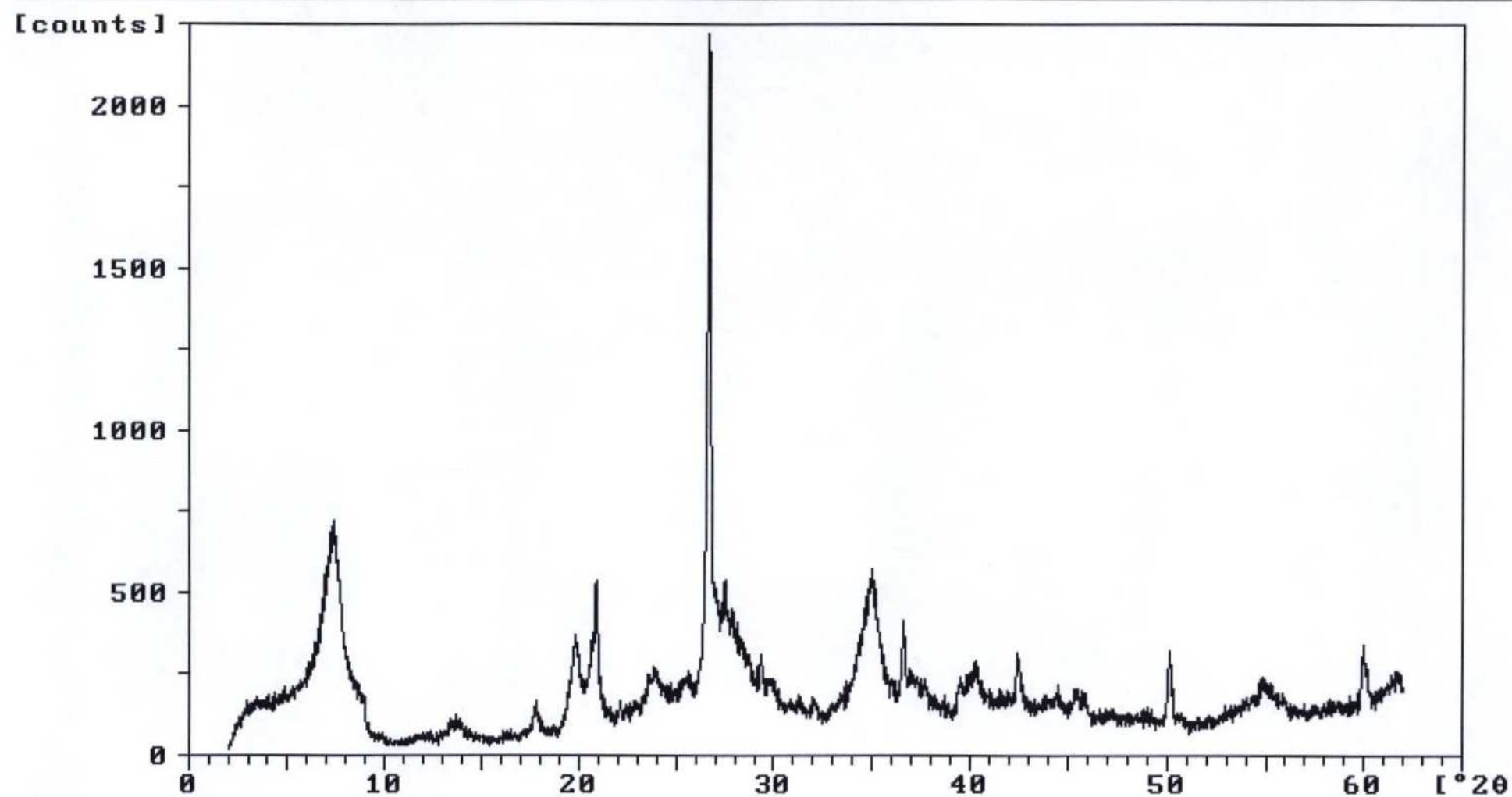
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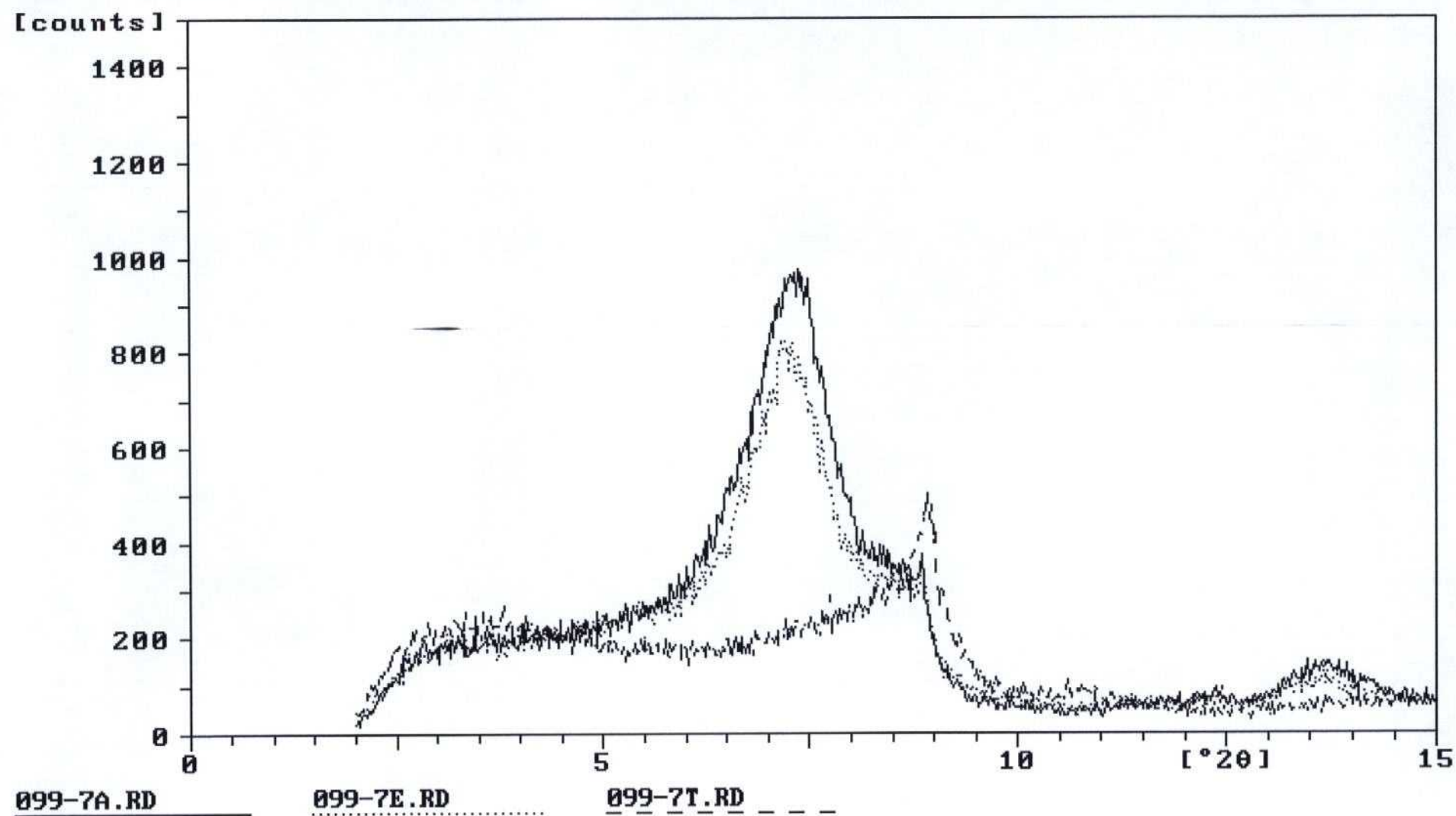
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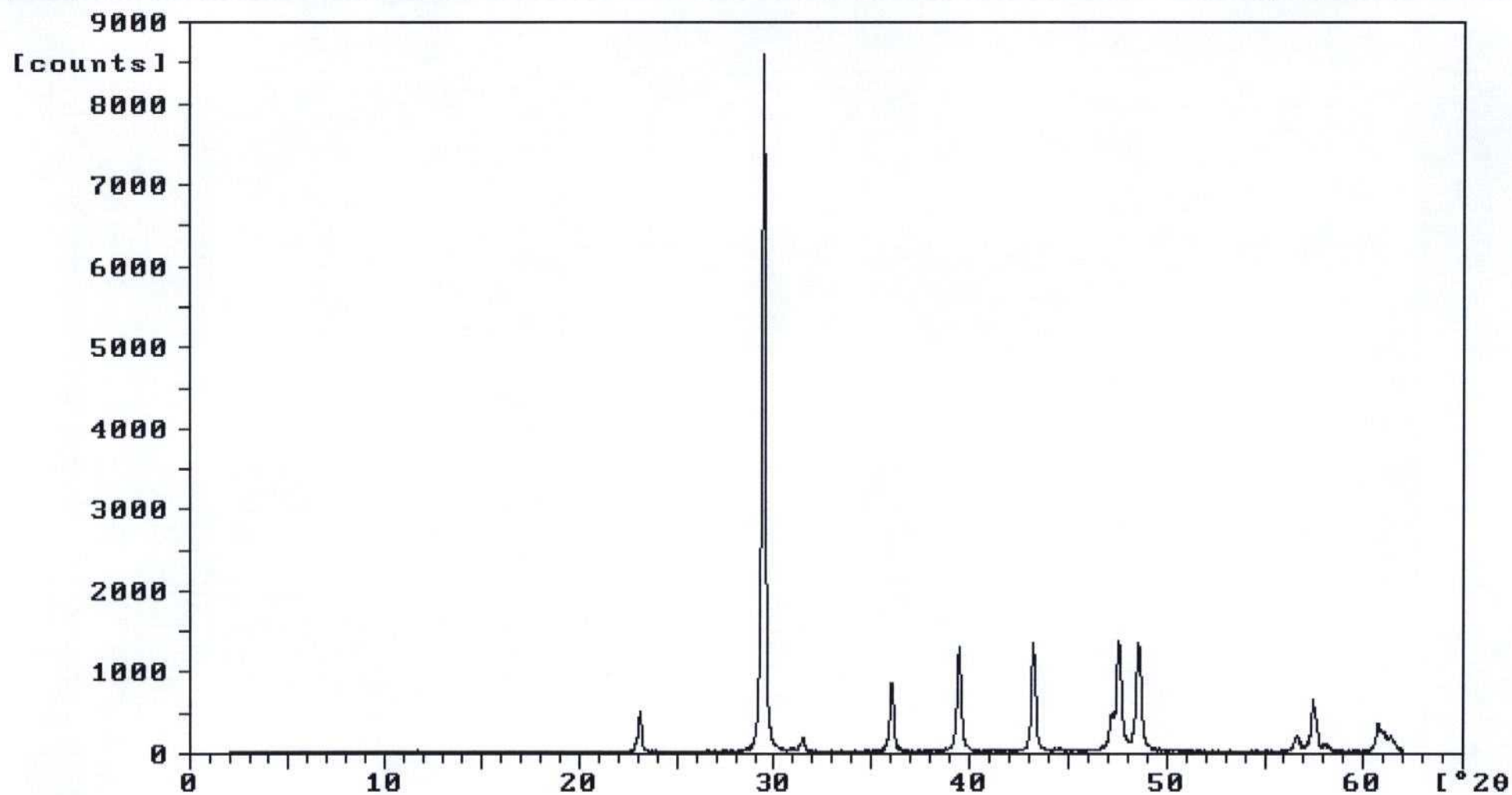
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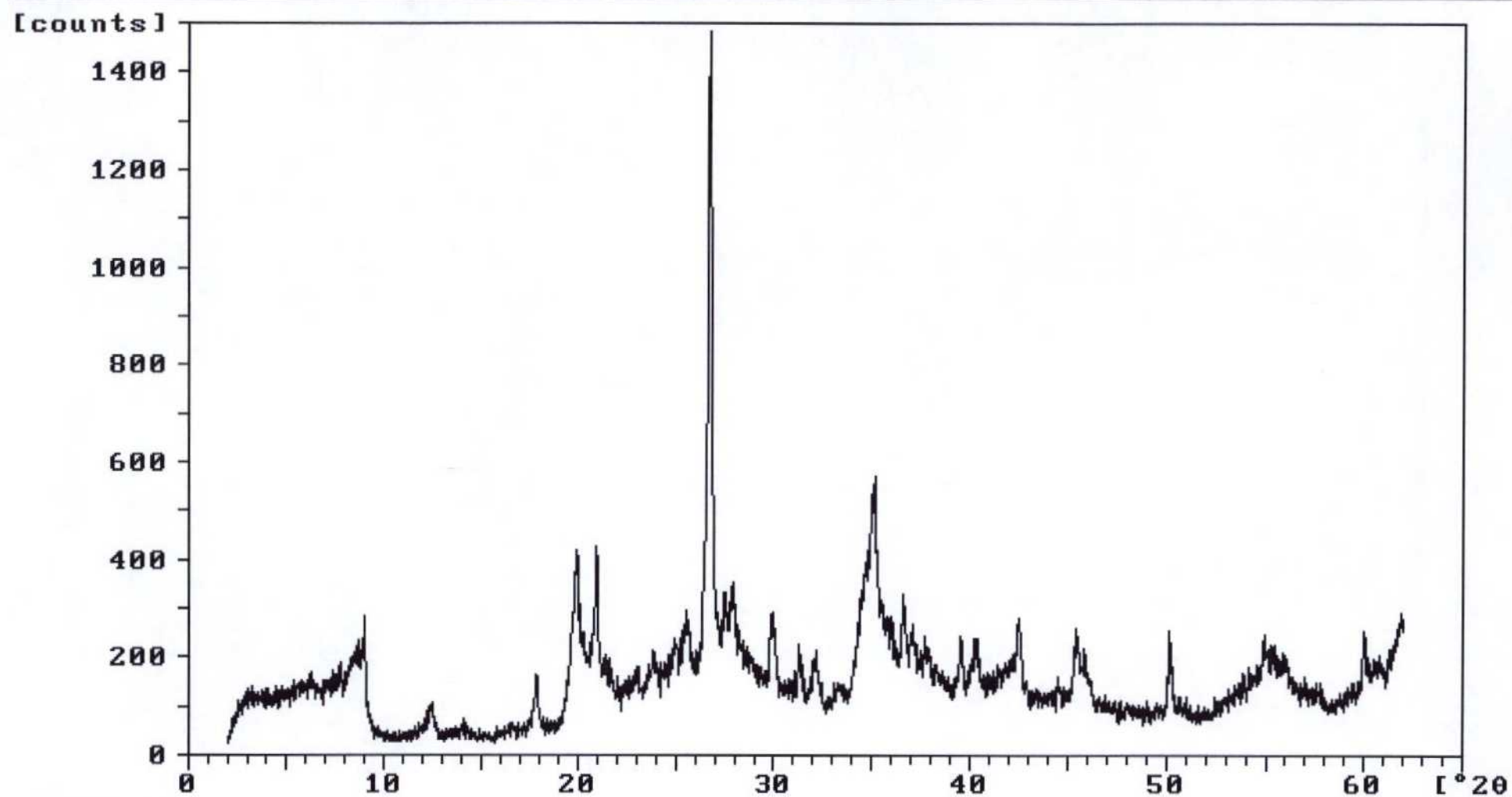
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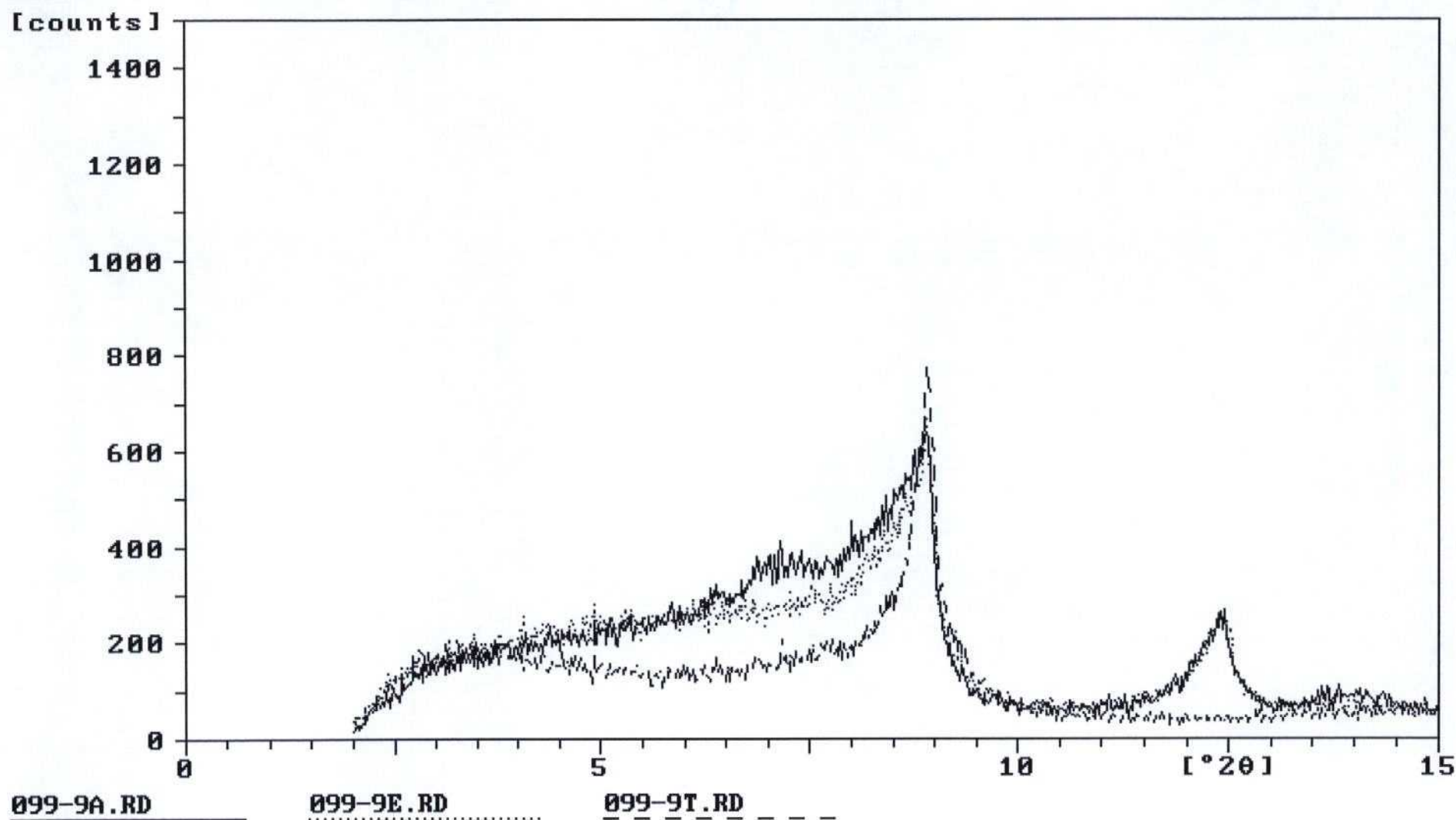
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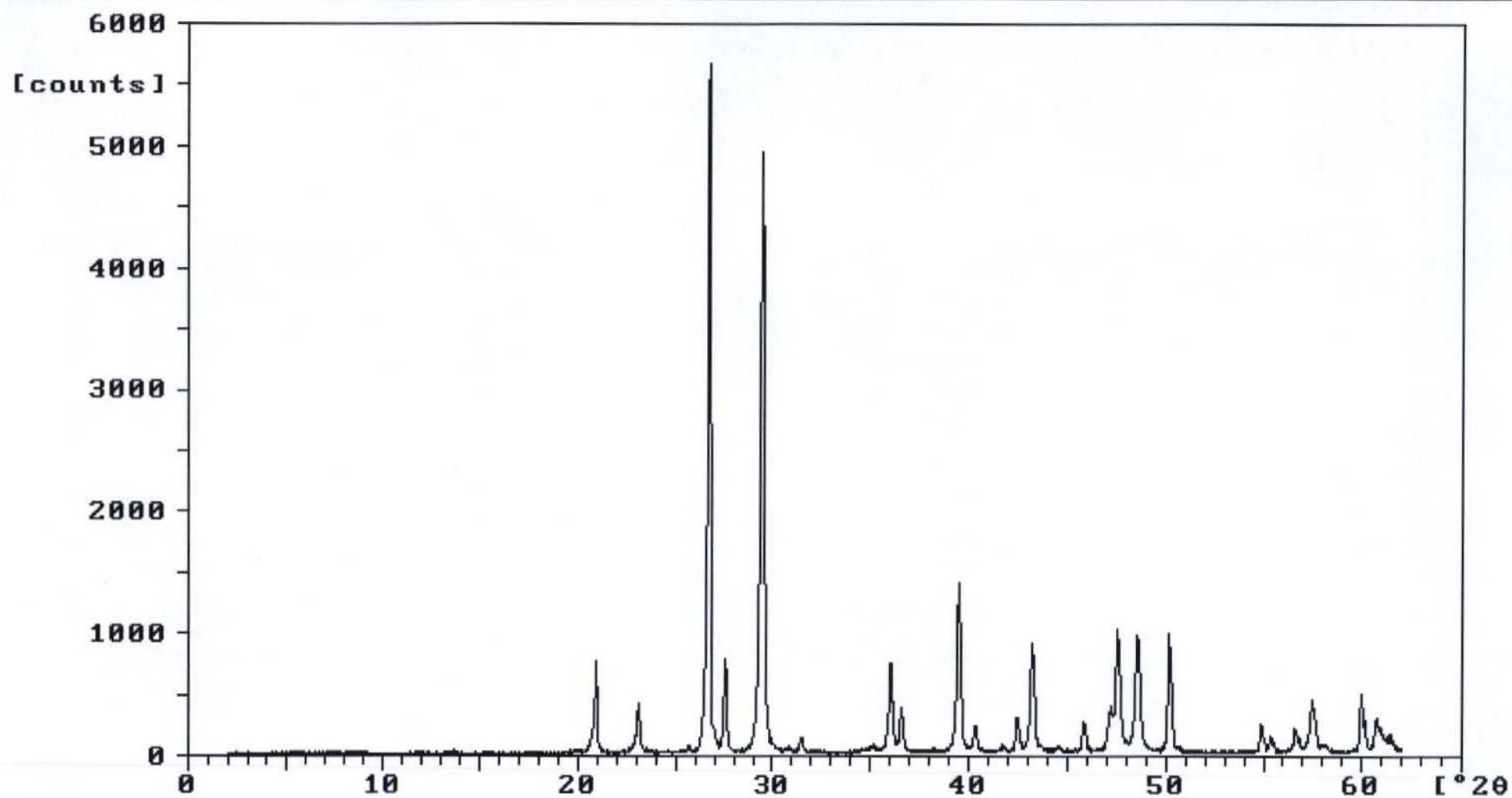
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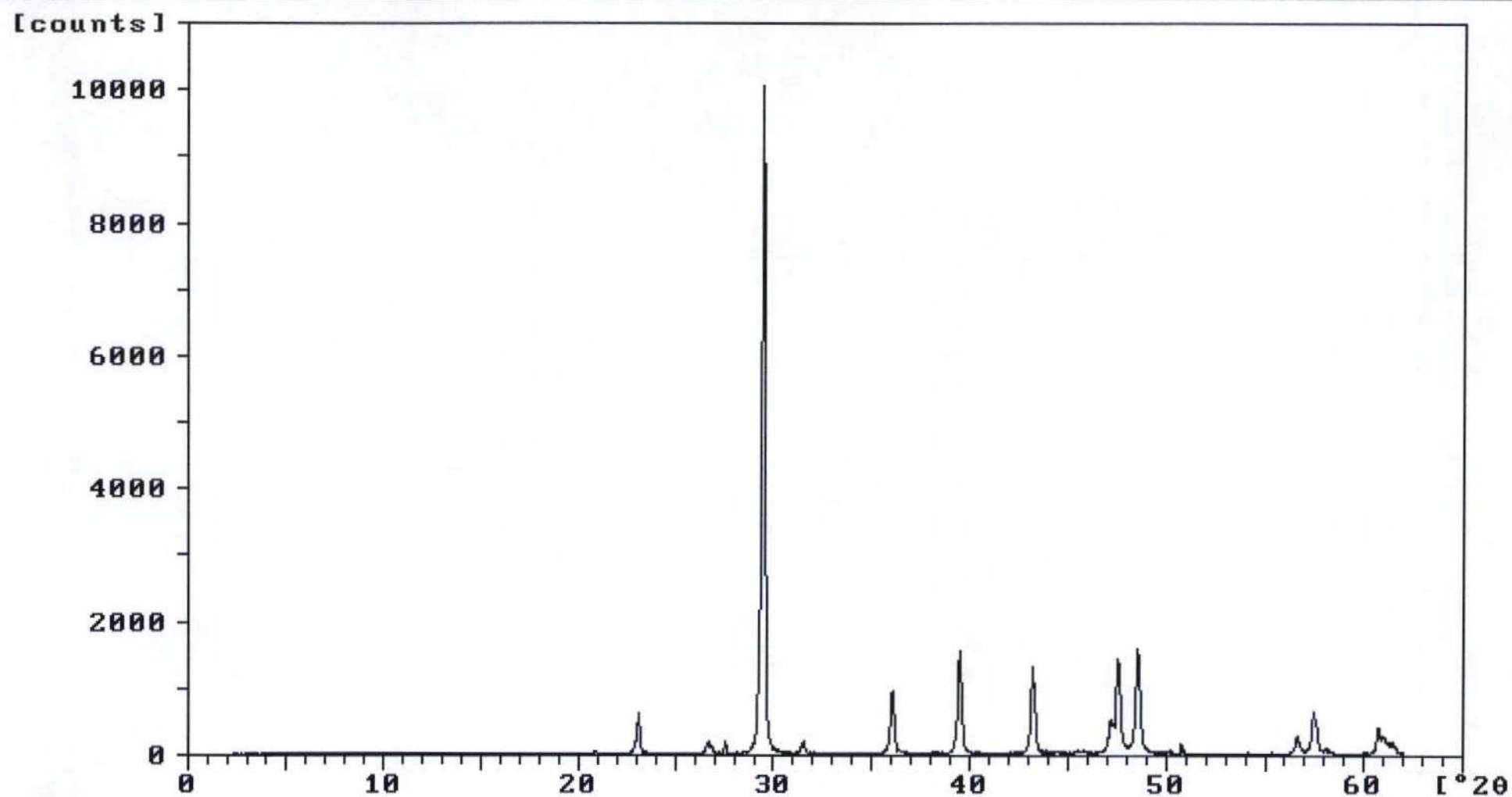
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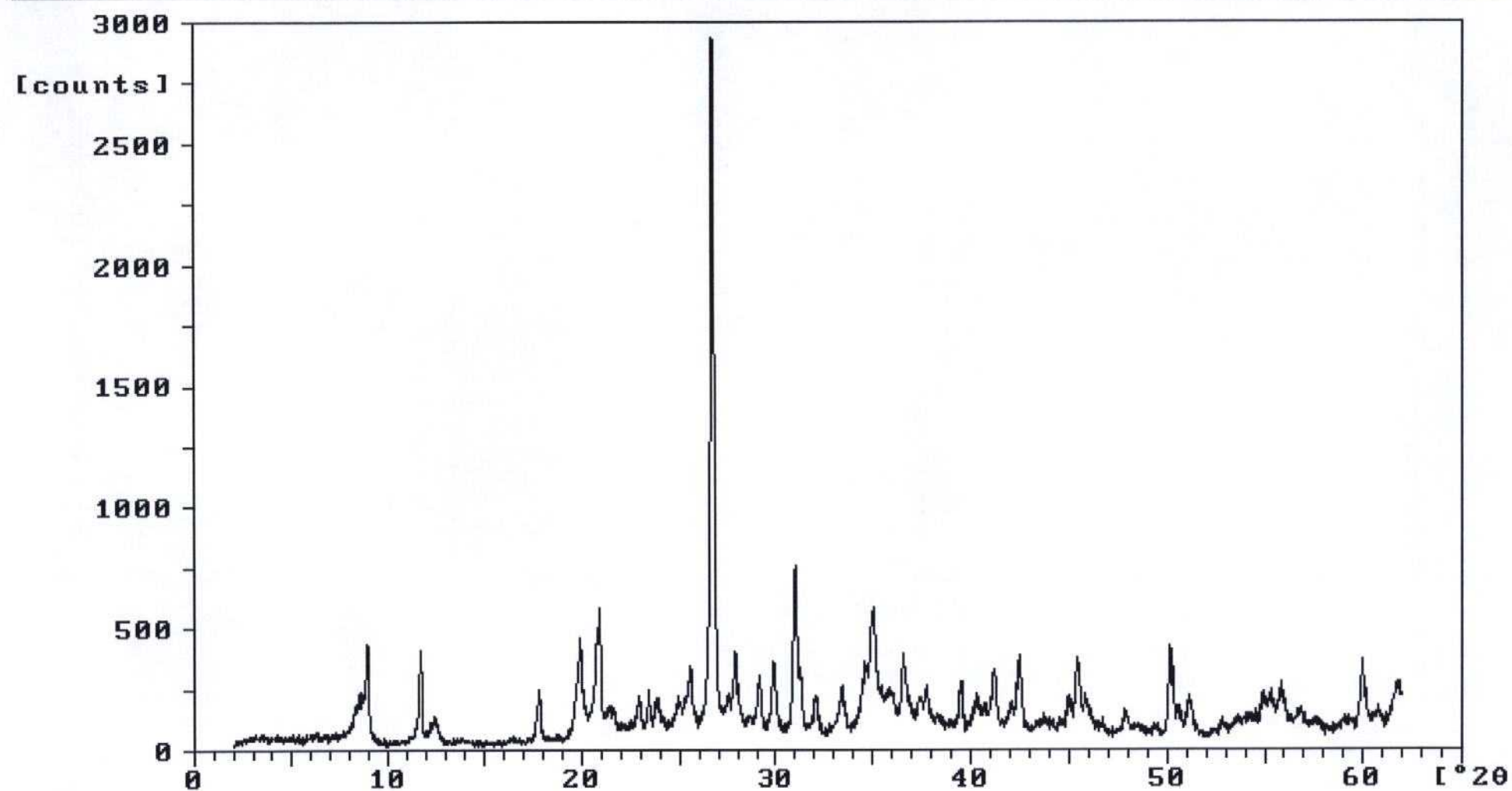
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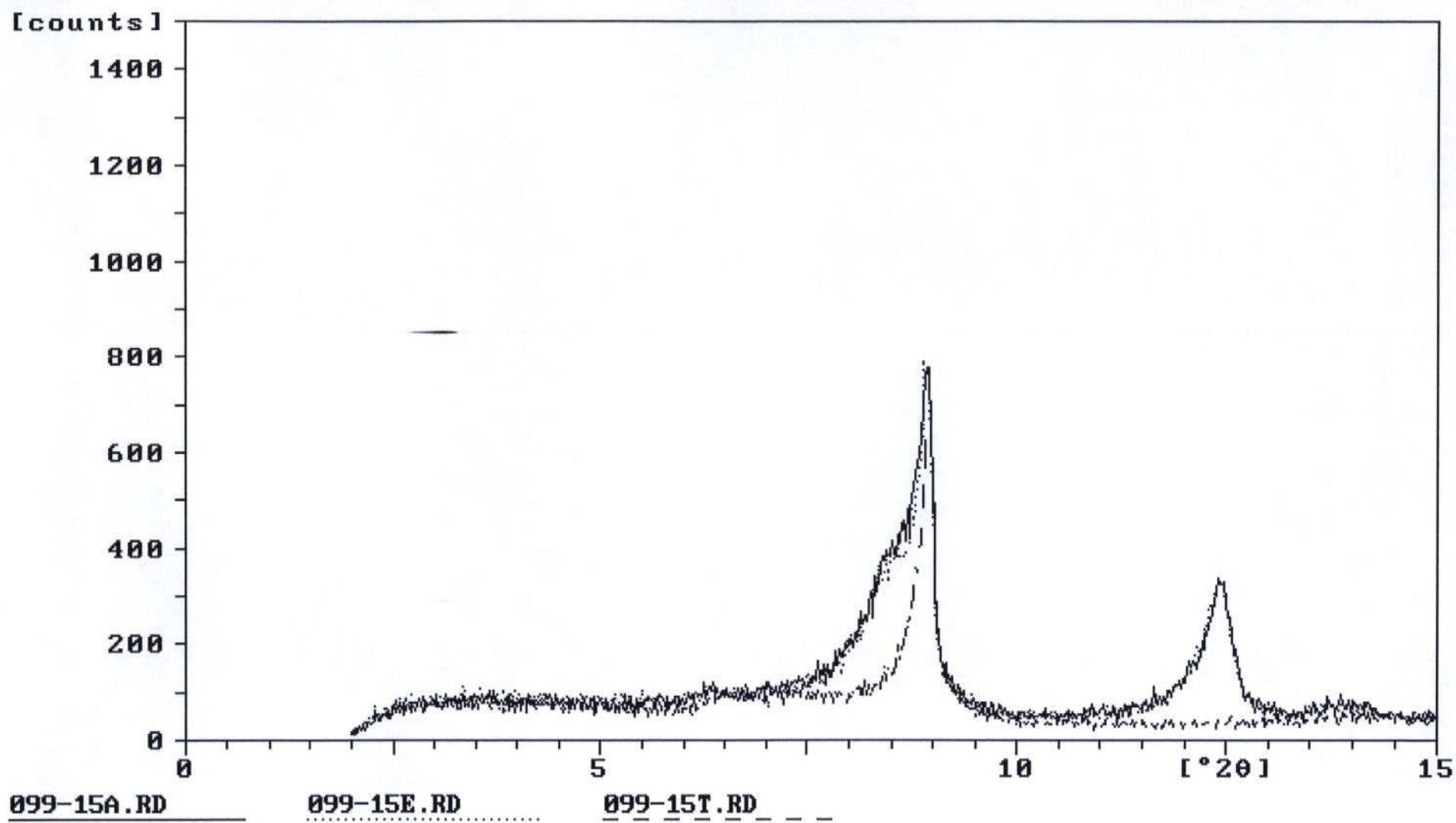
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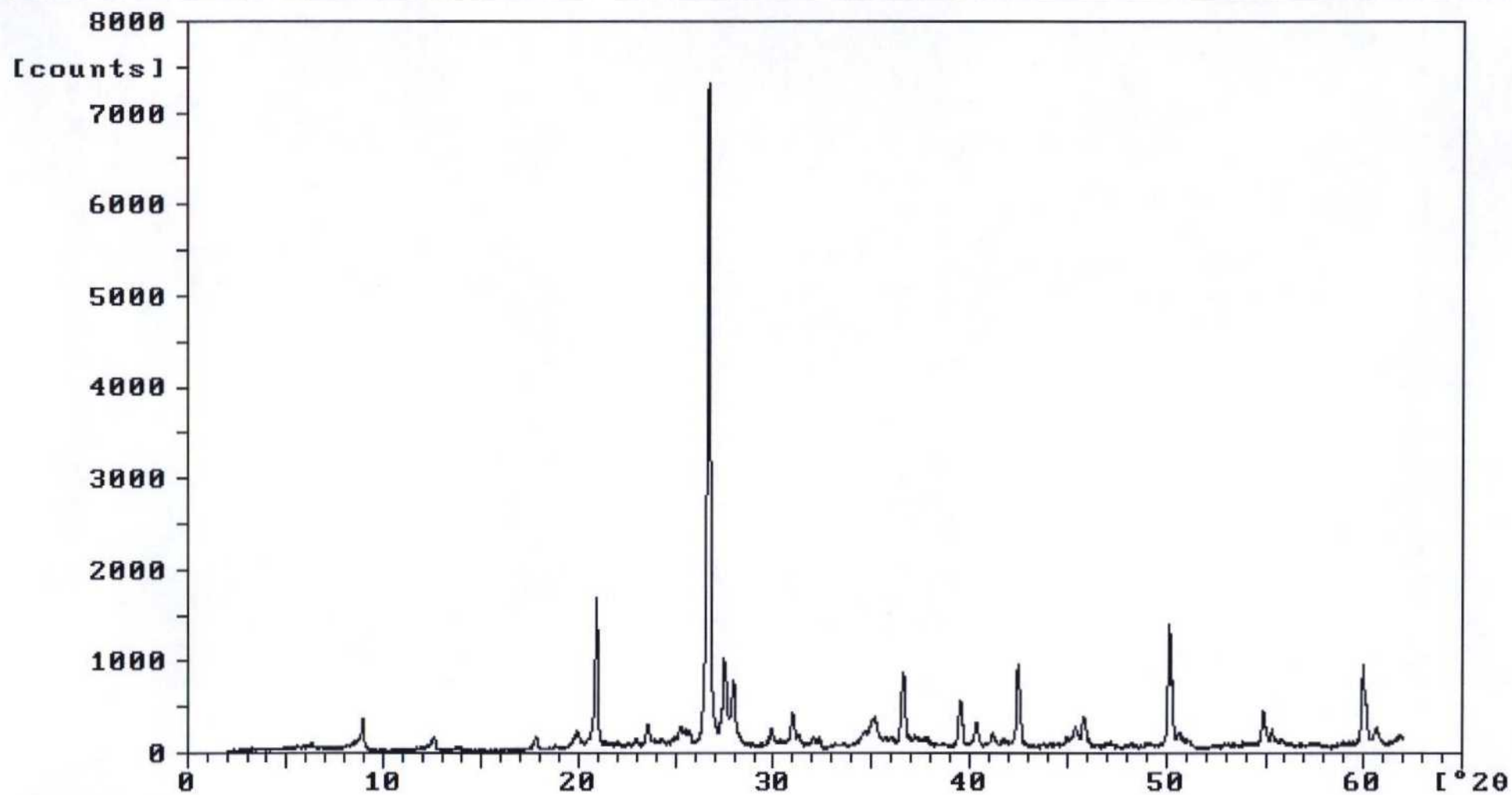
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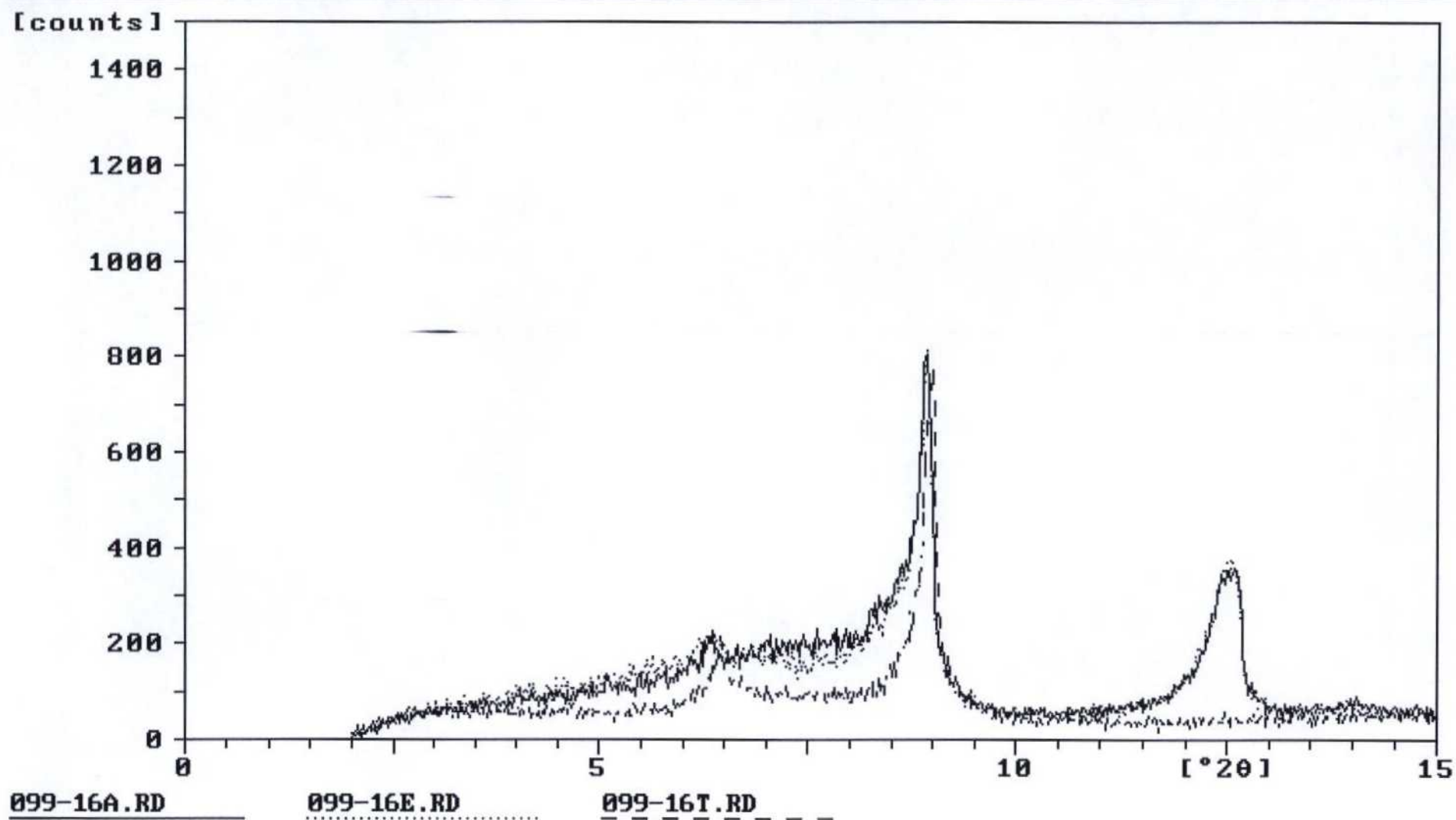
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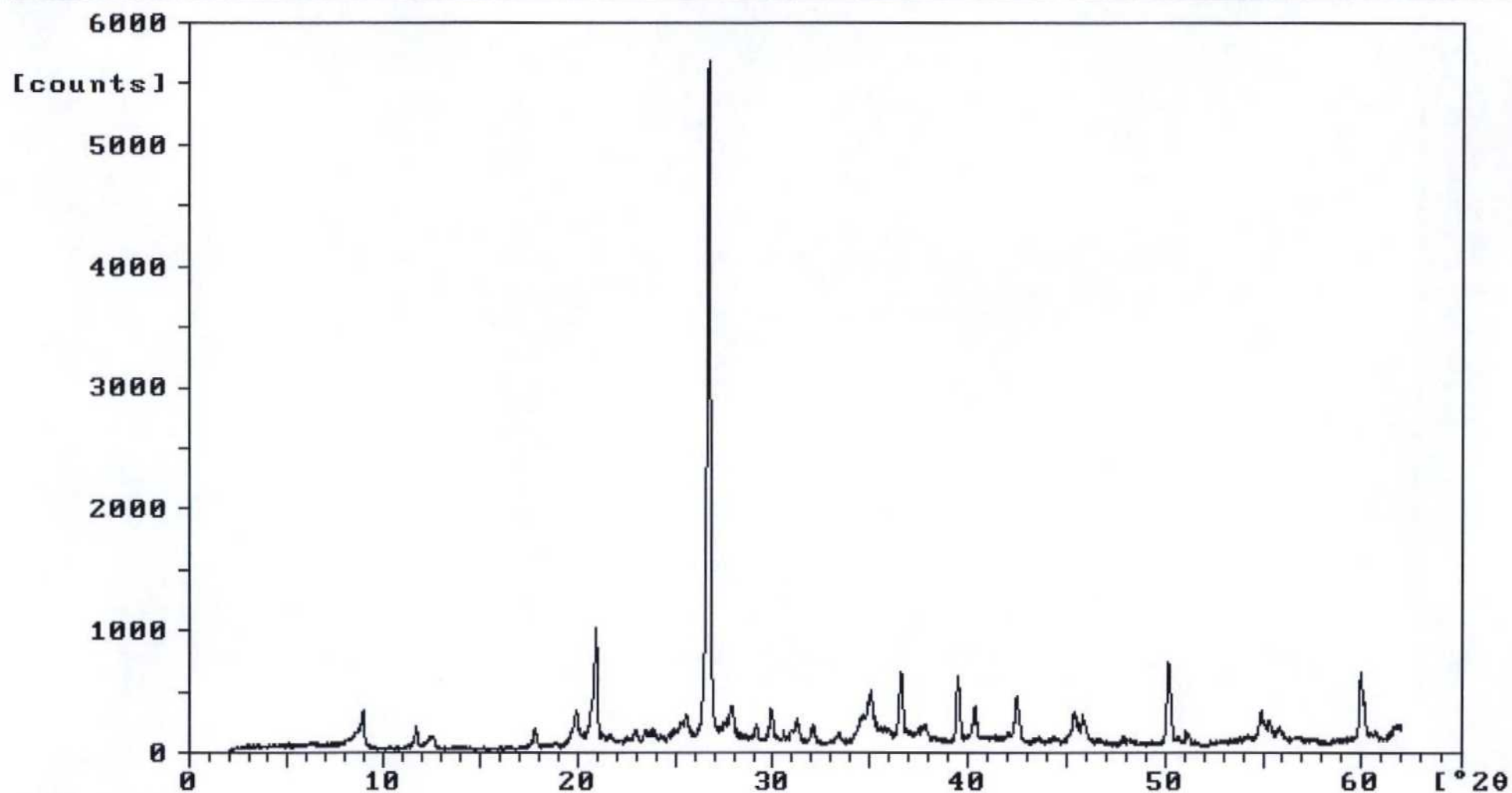
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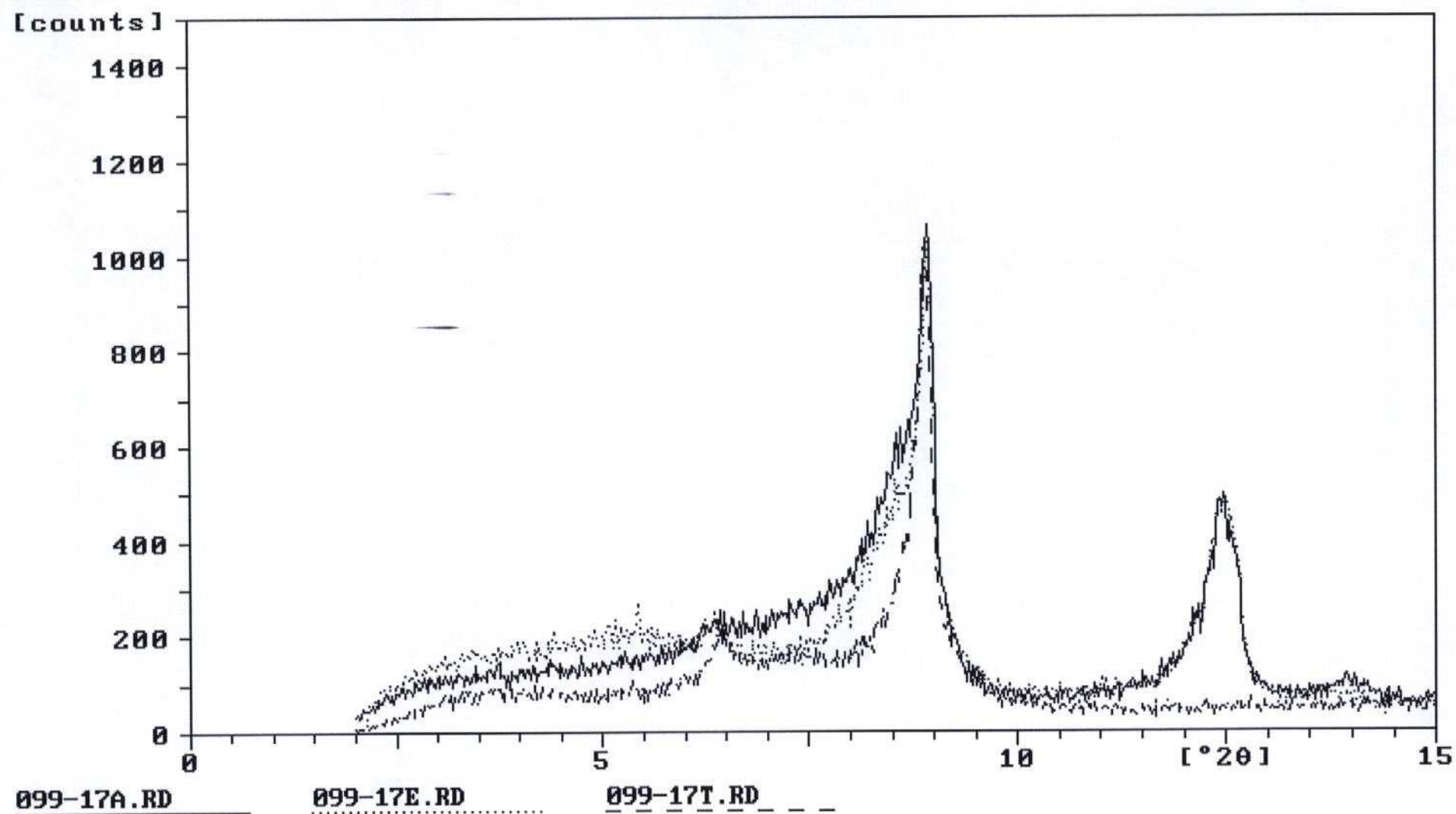
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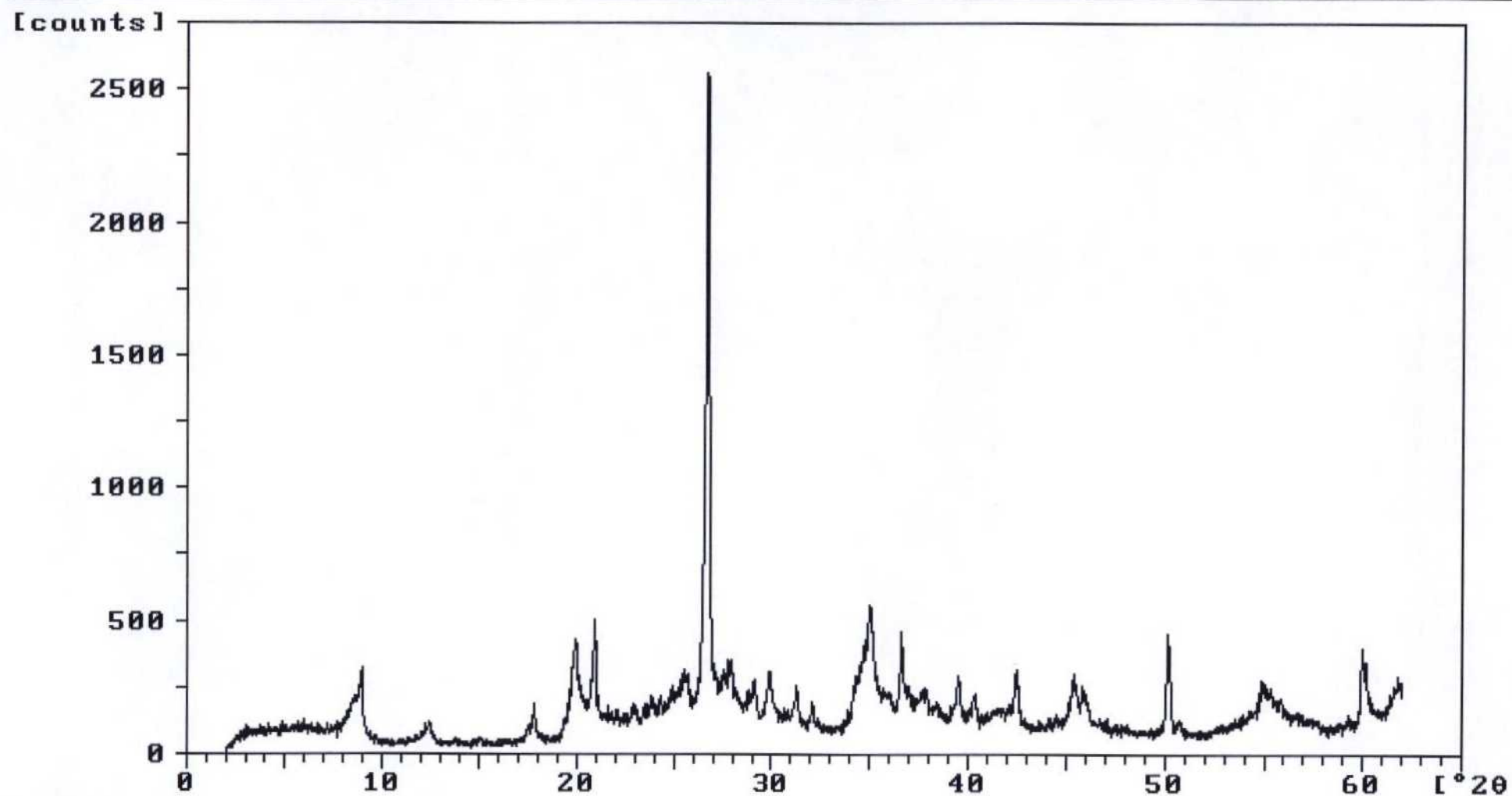
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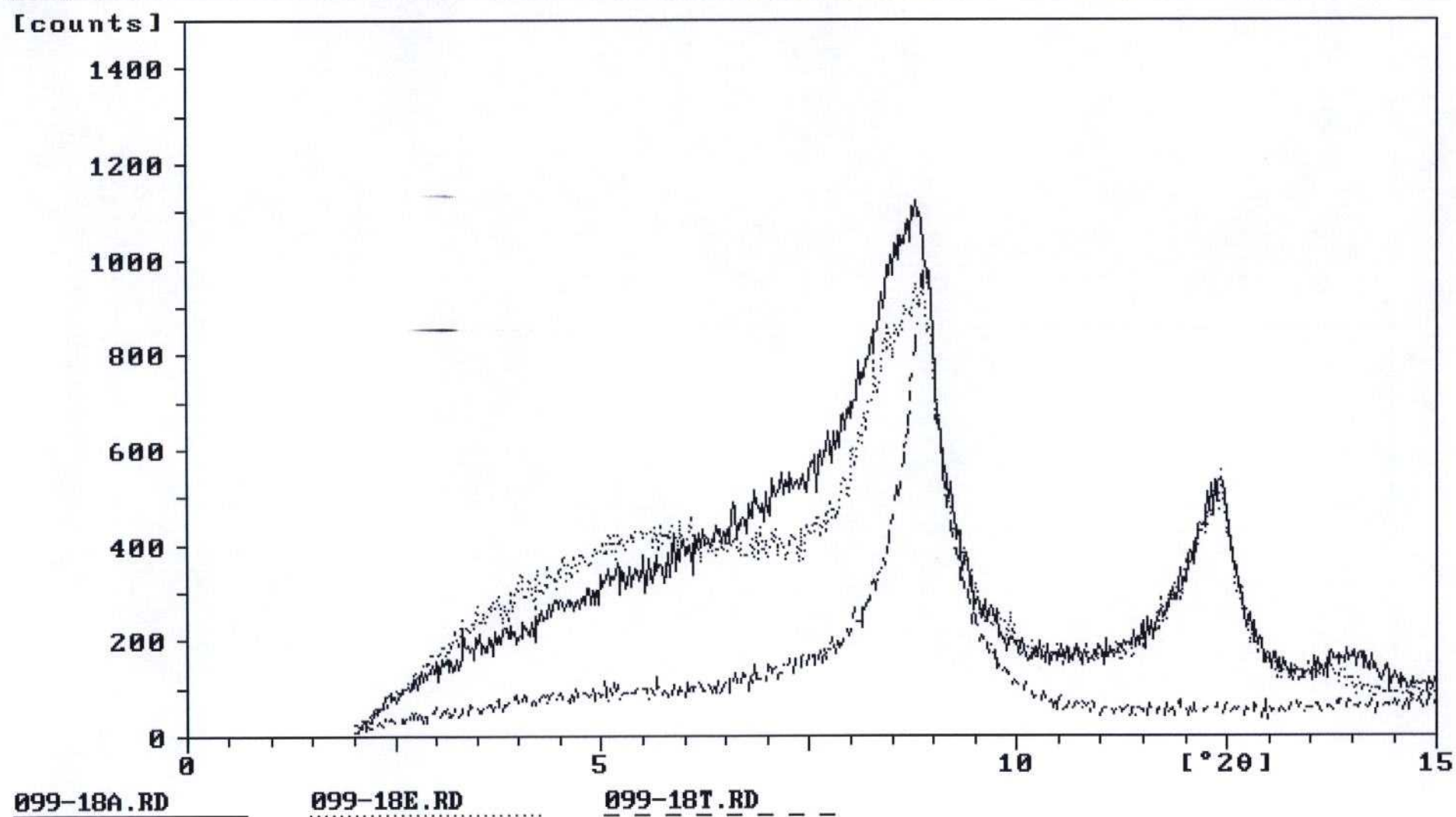
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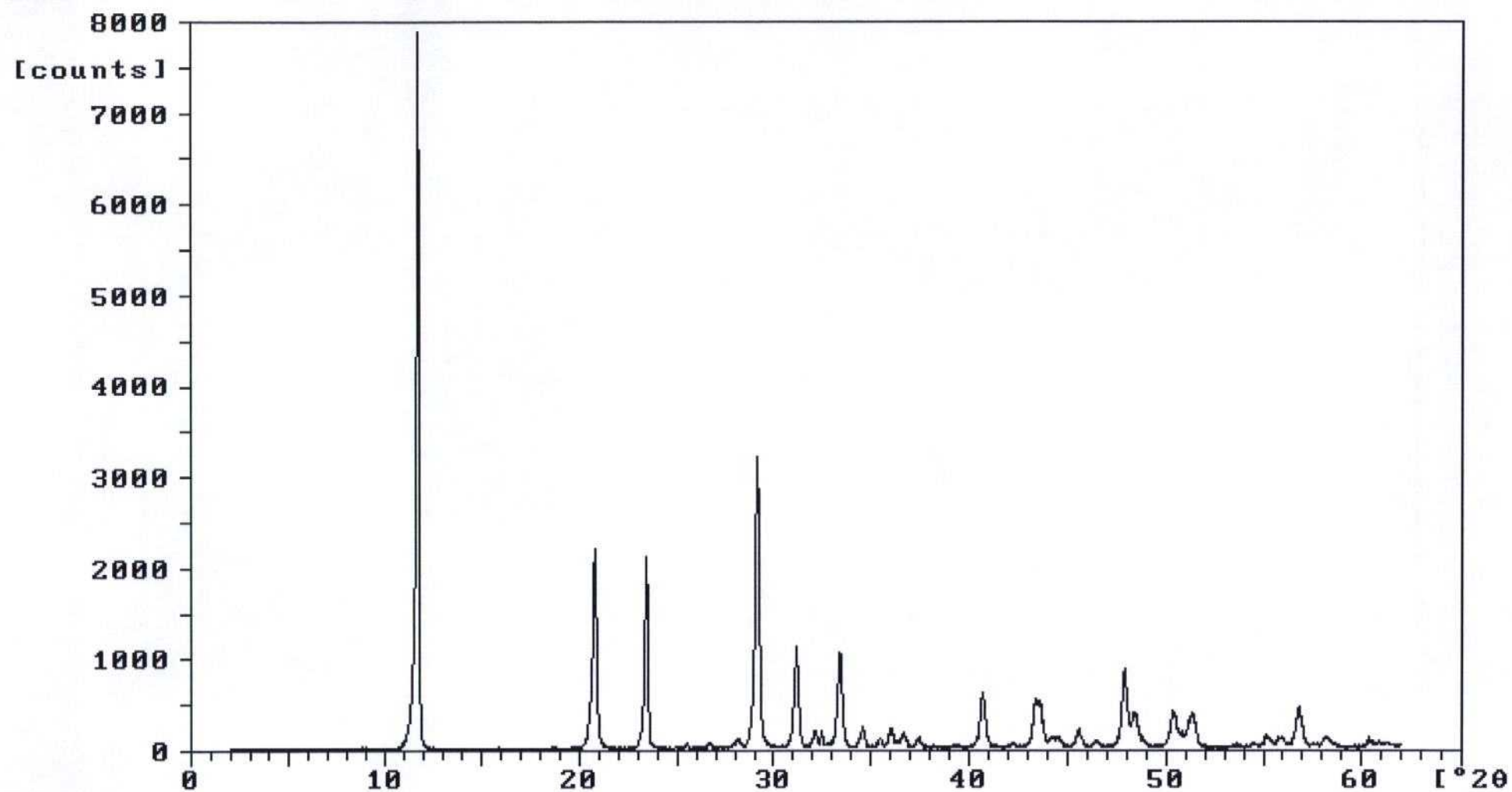
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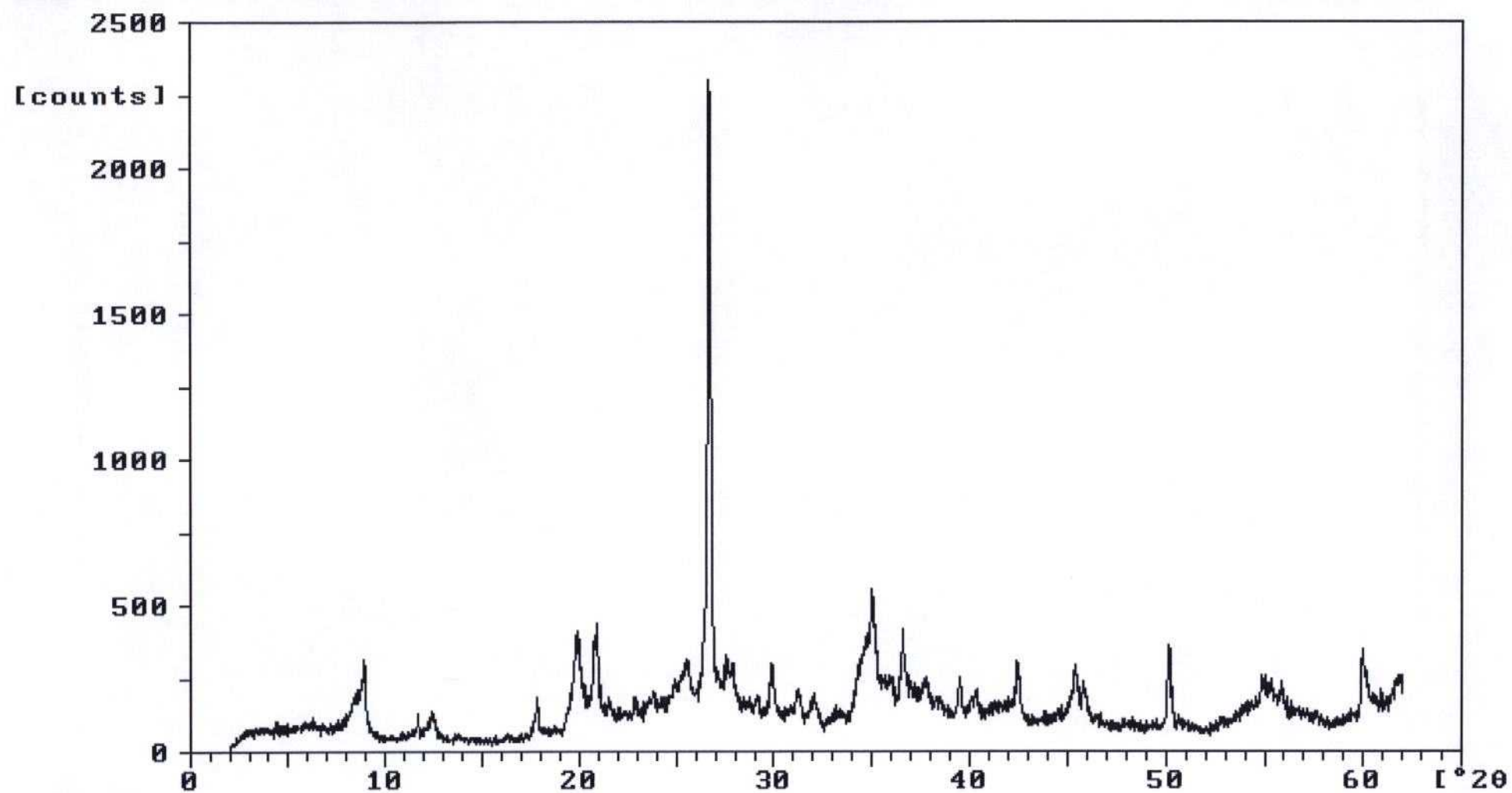
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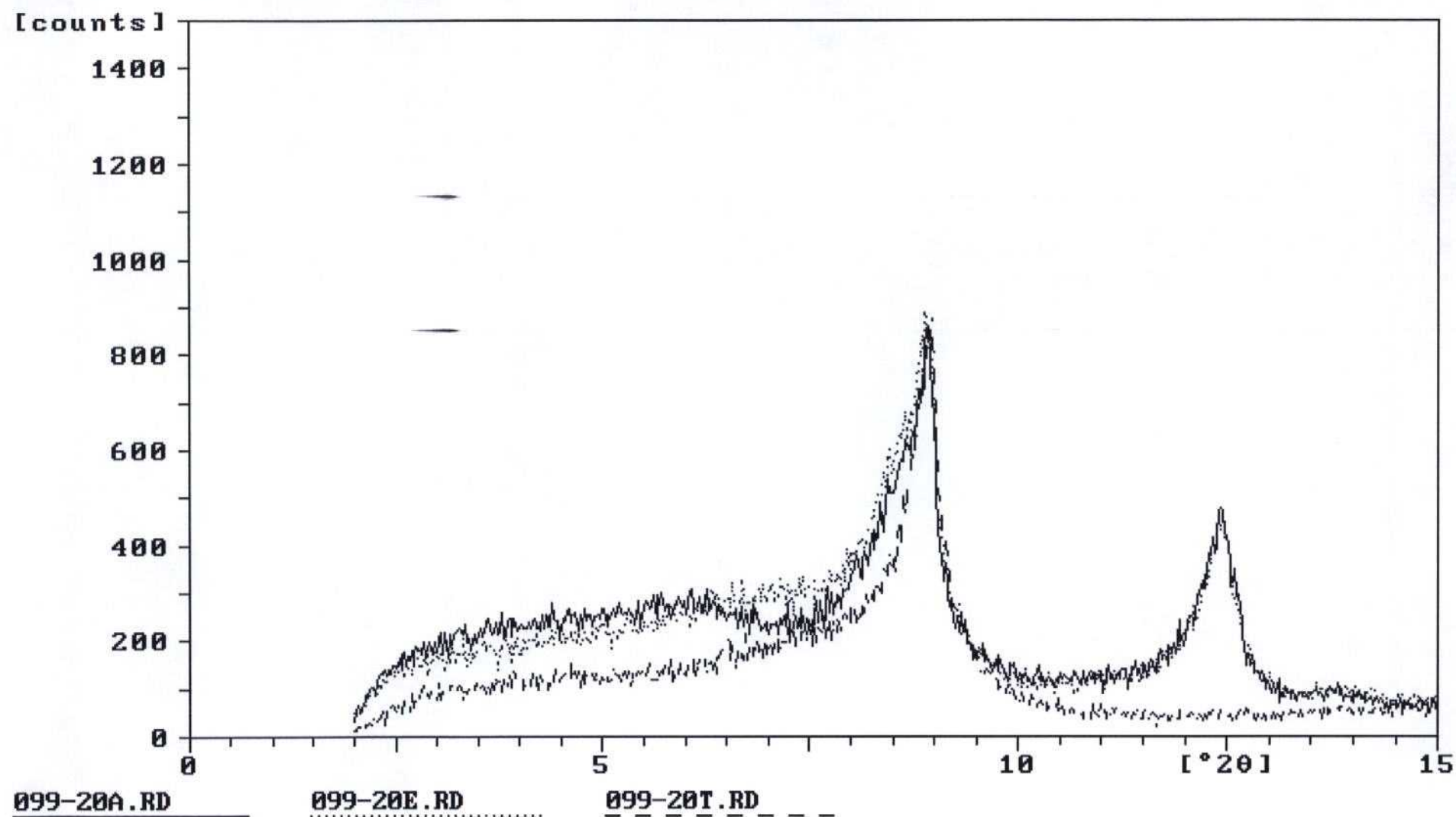
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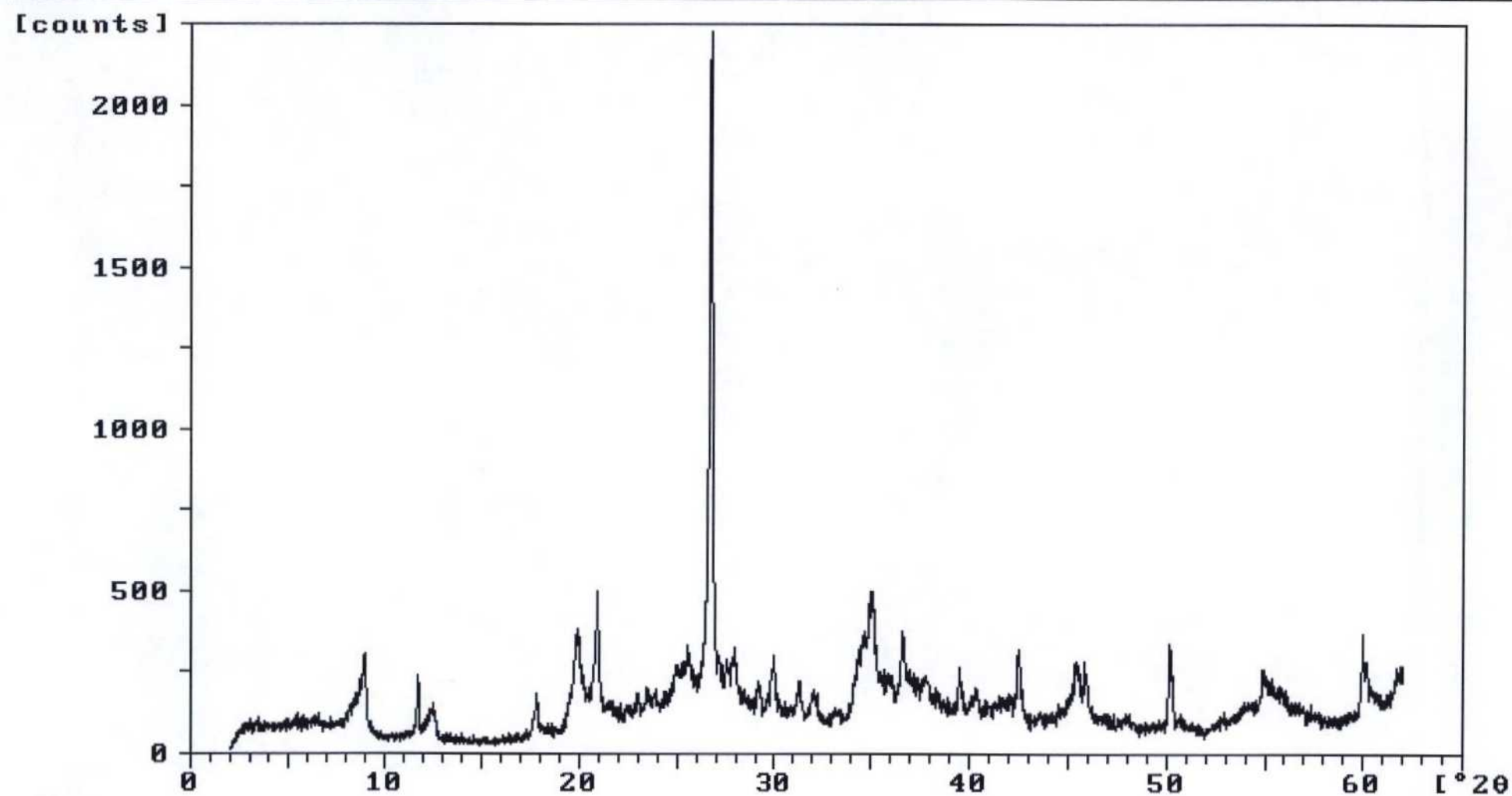
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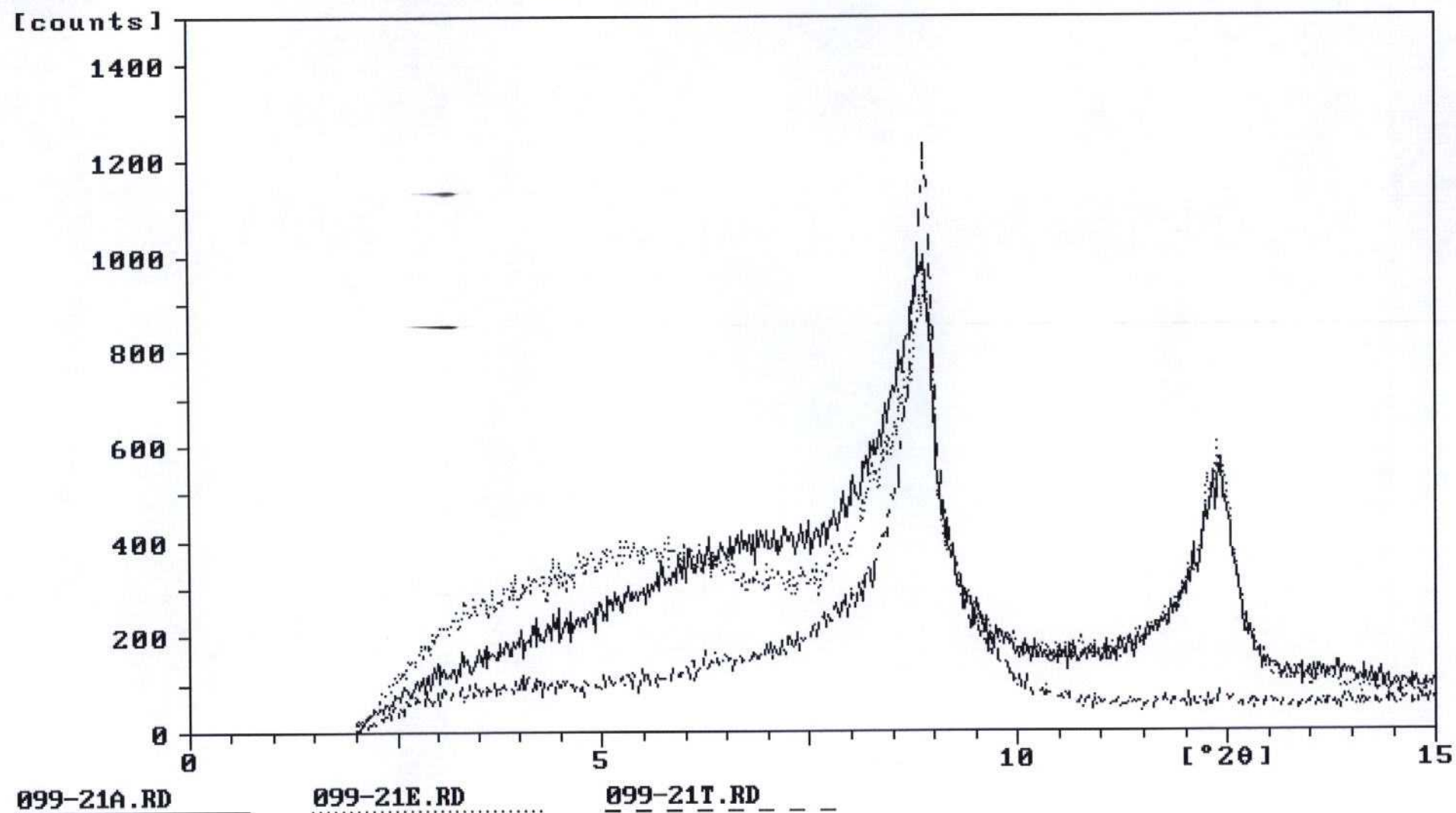
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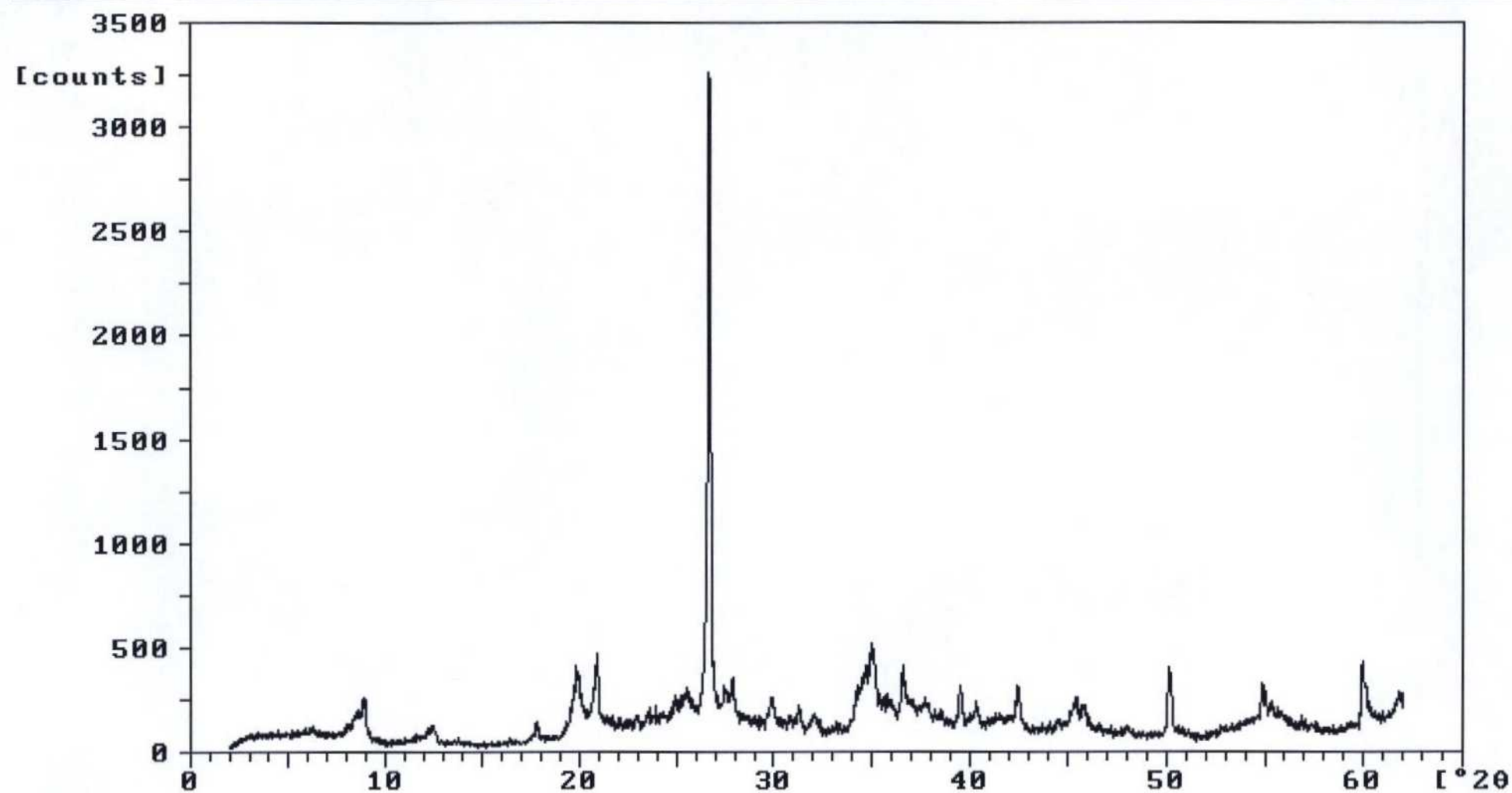
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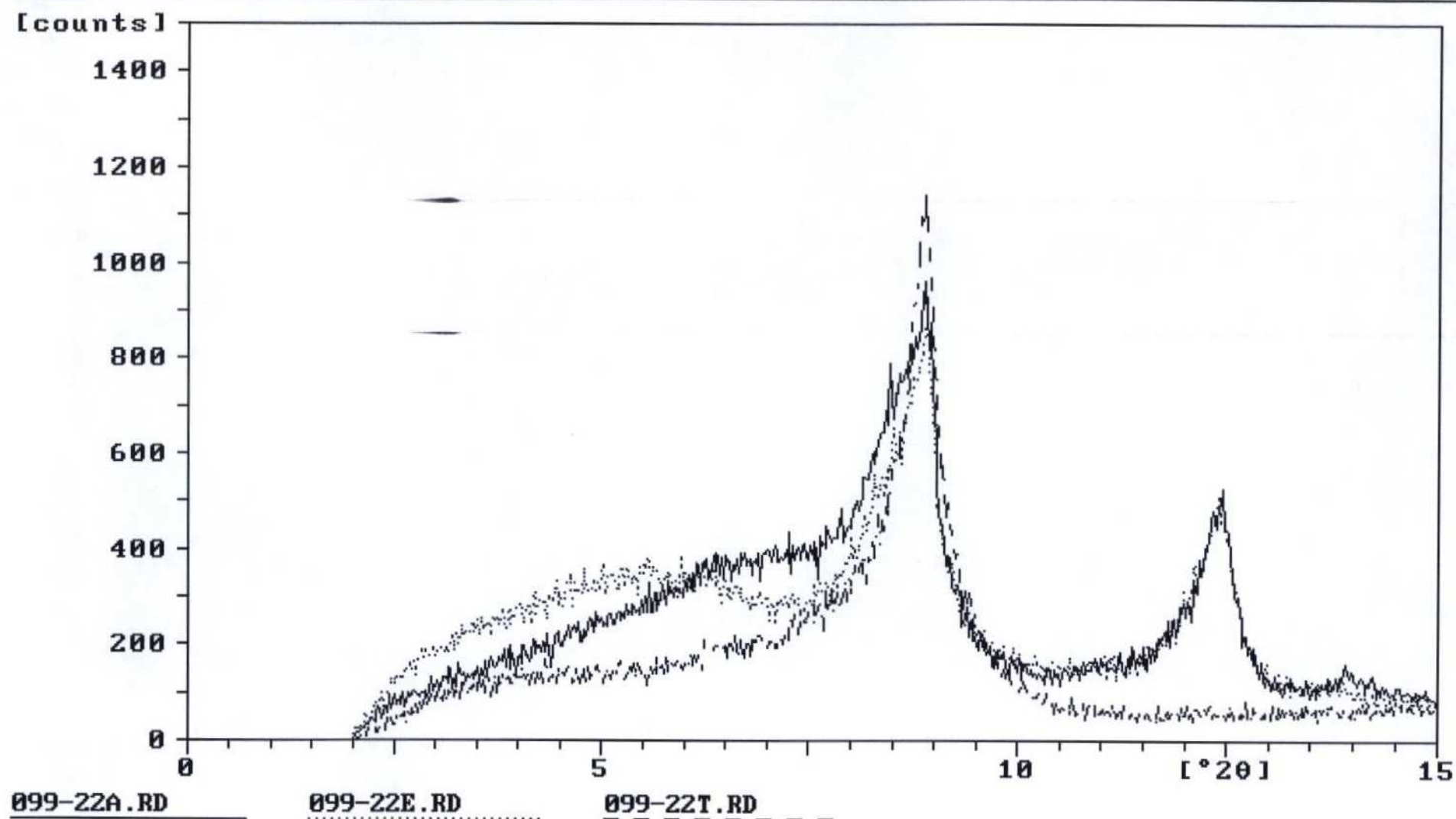
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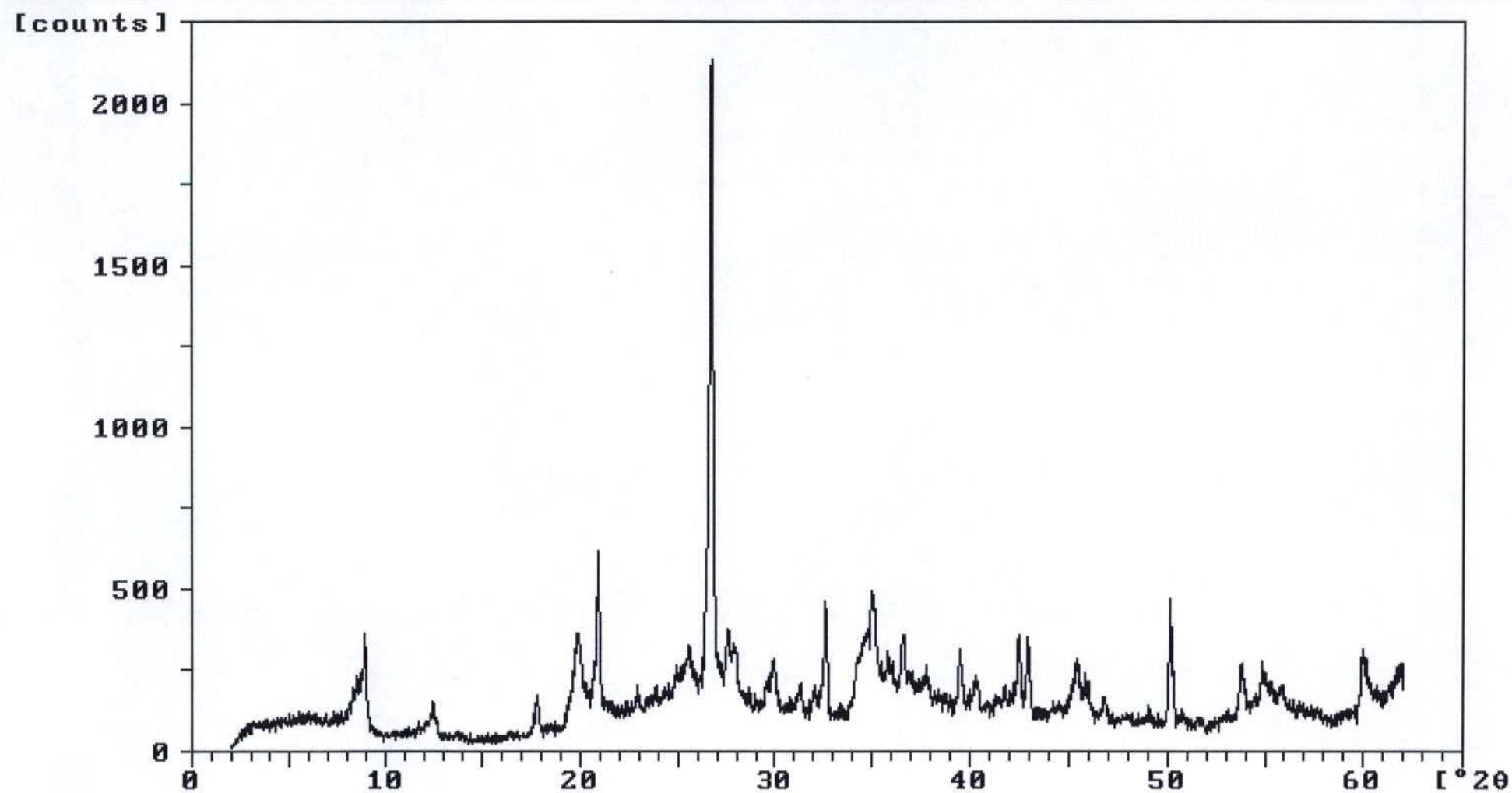
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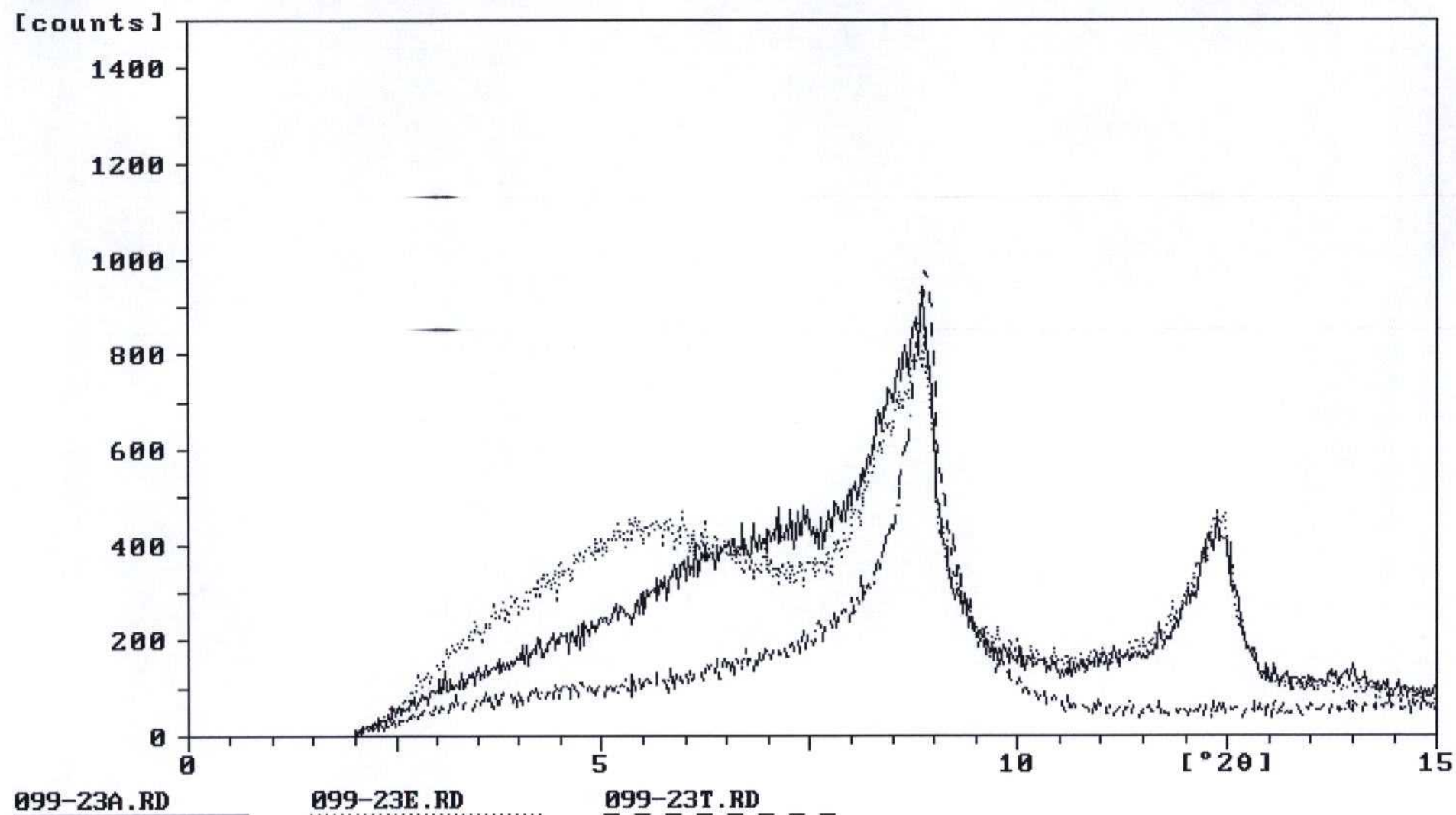
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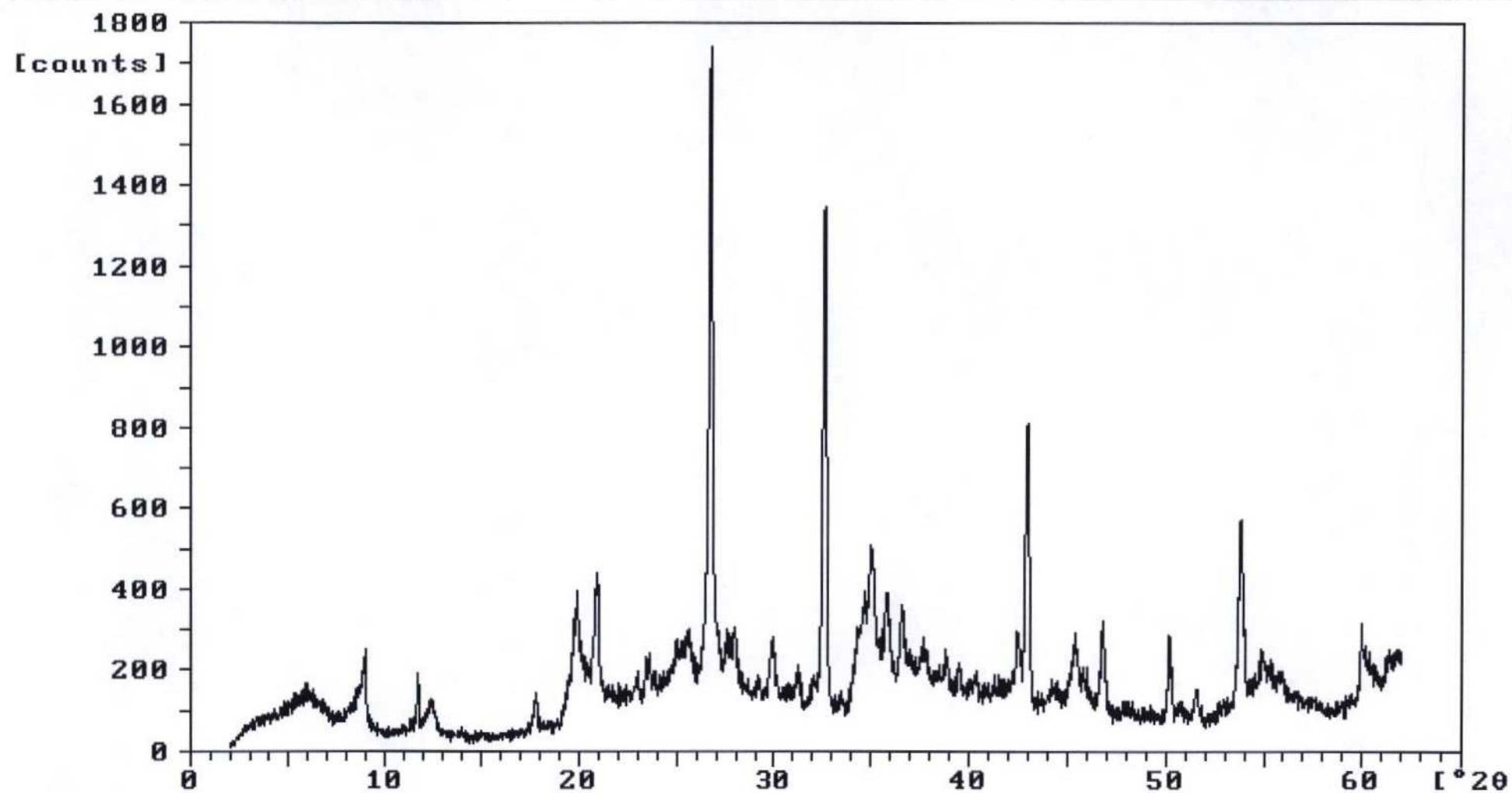
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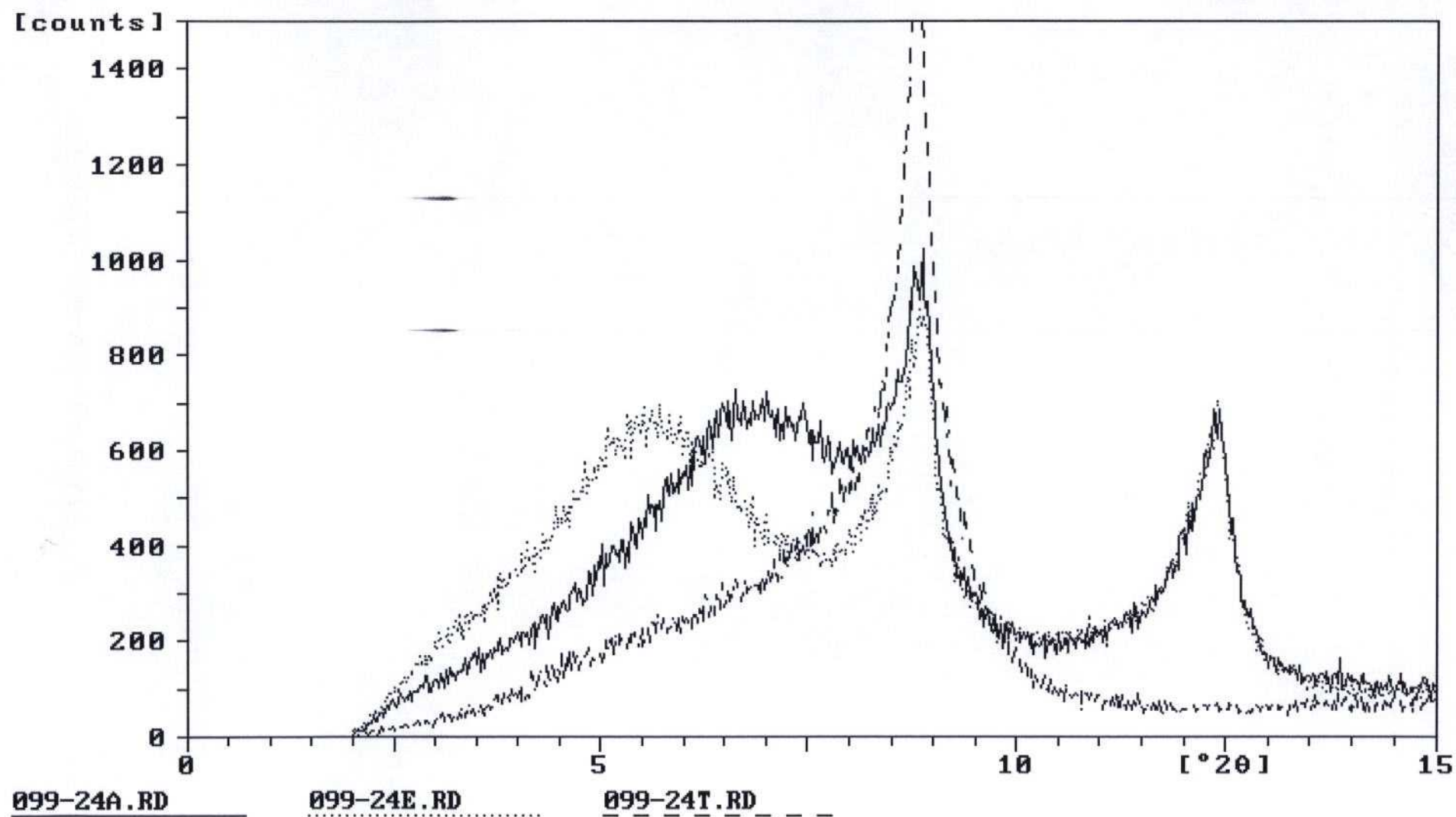
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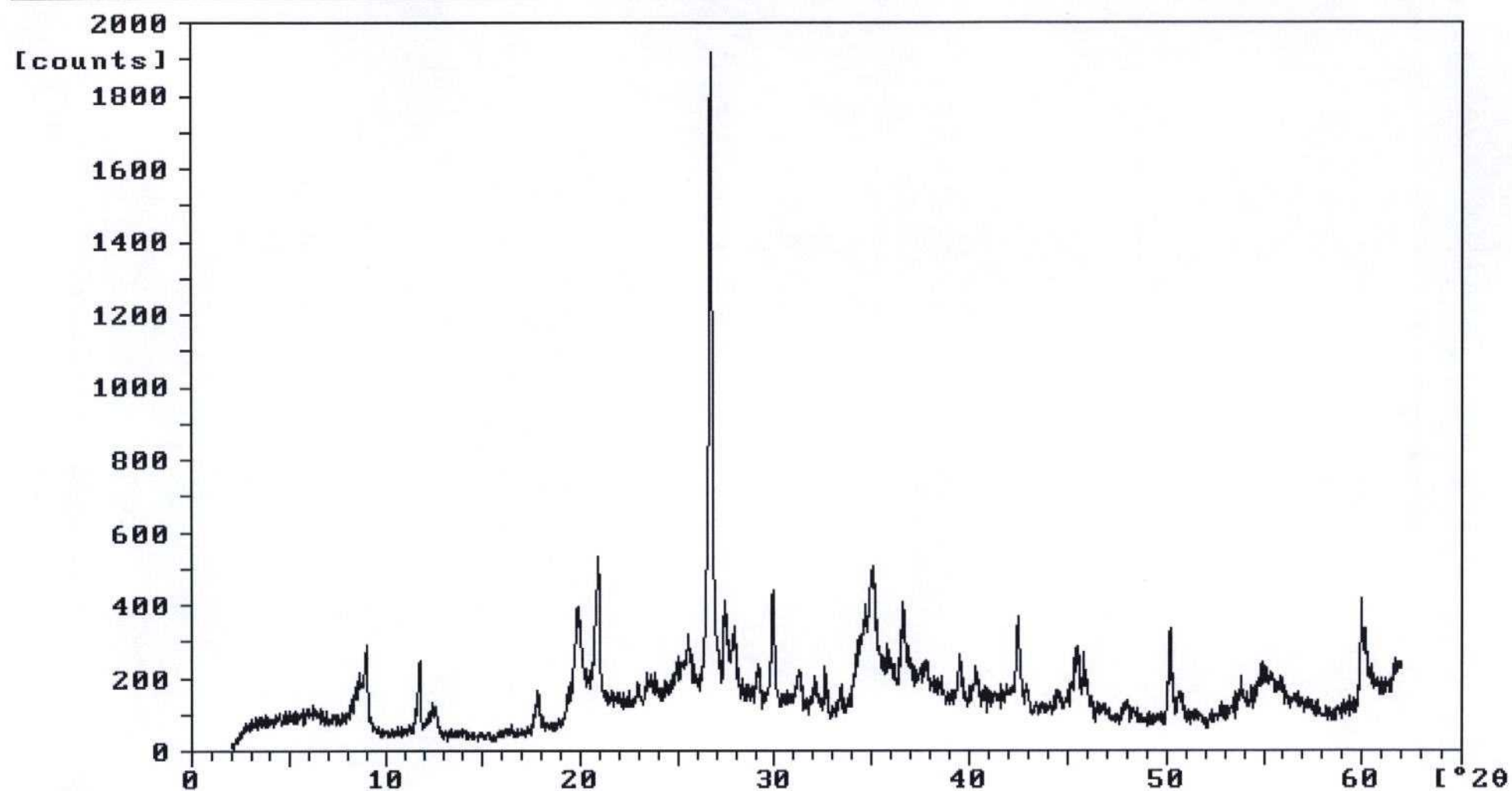
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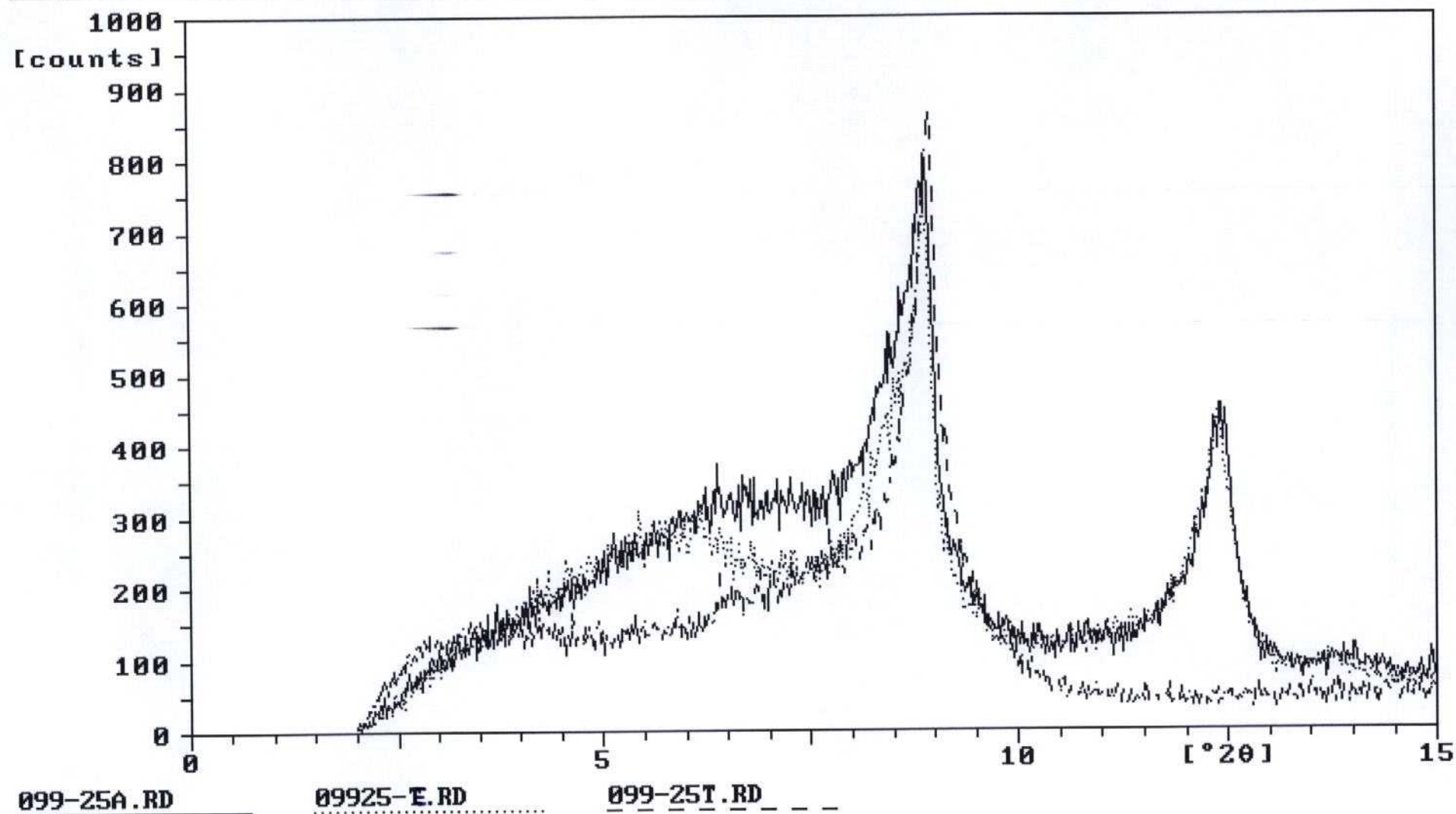
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98099-25.RD

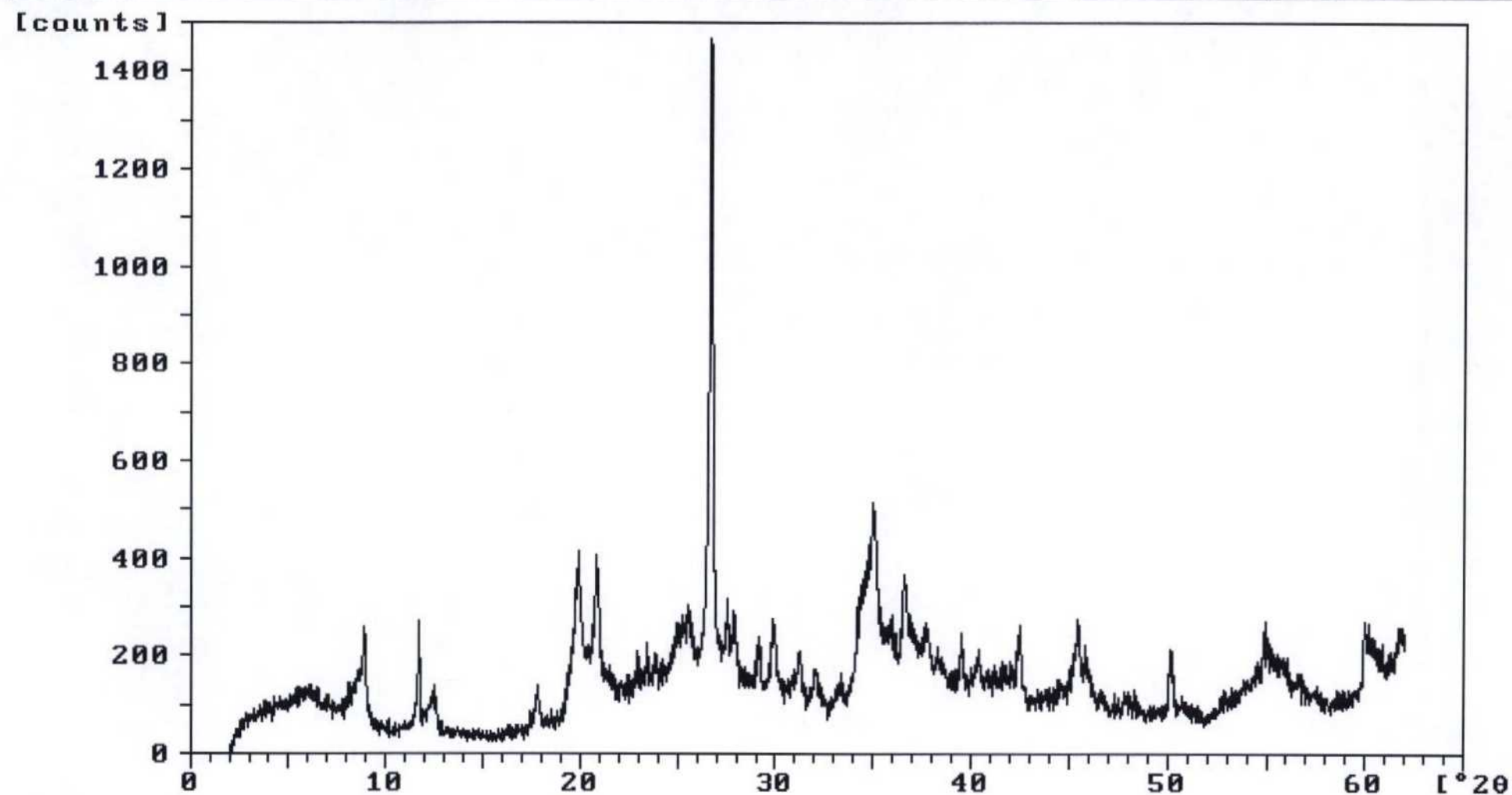
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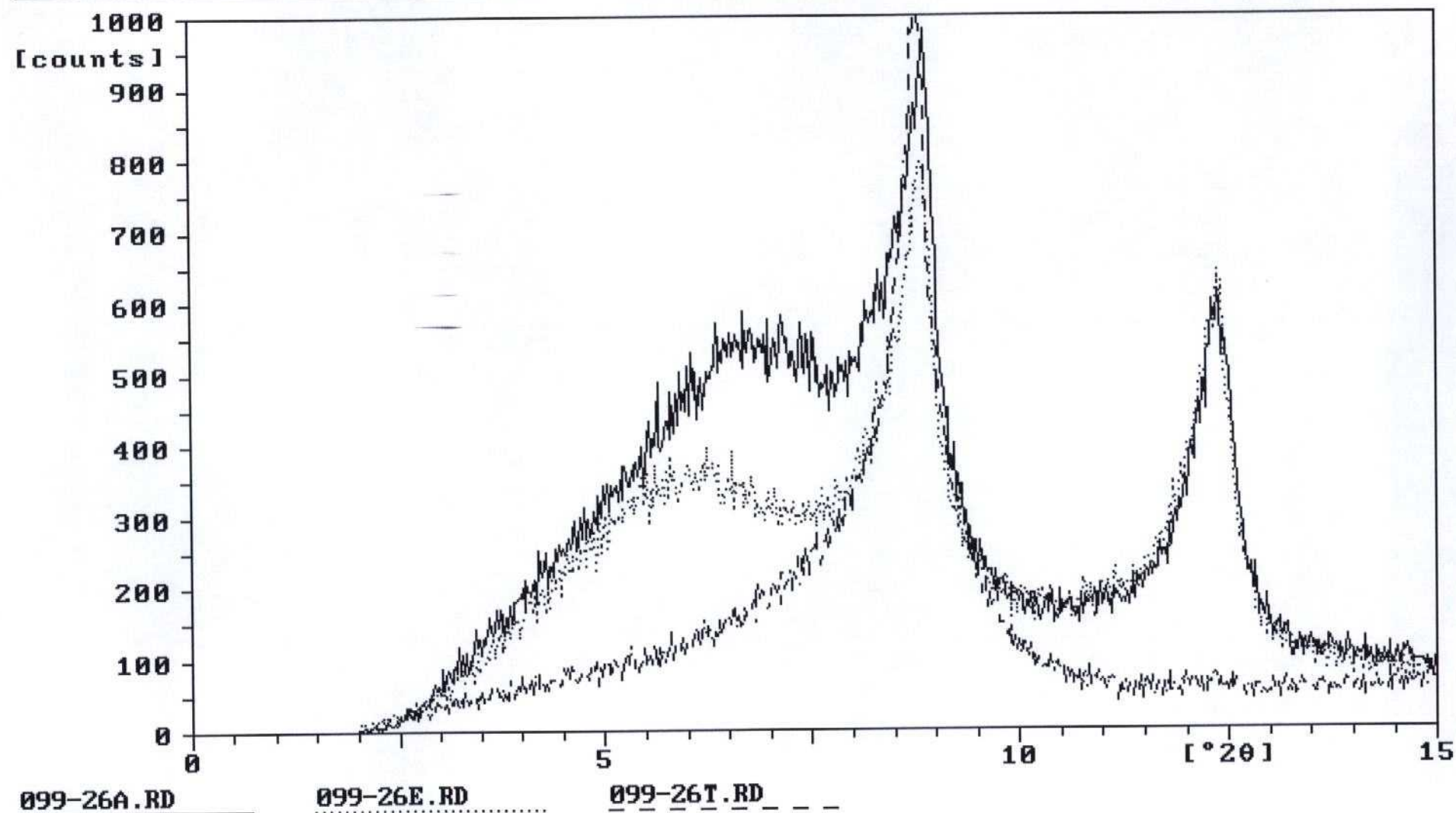
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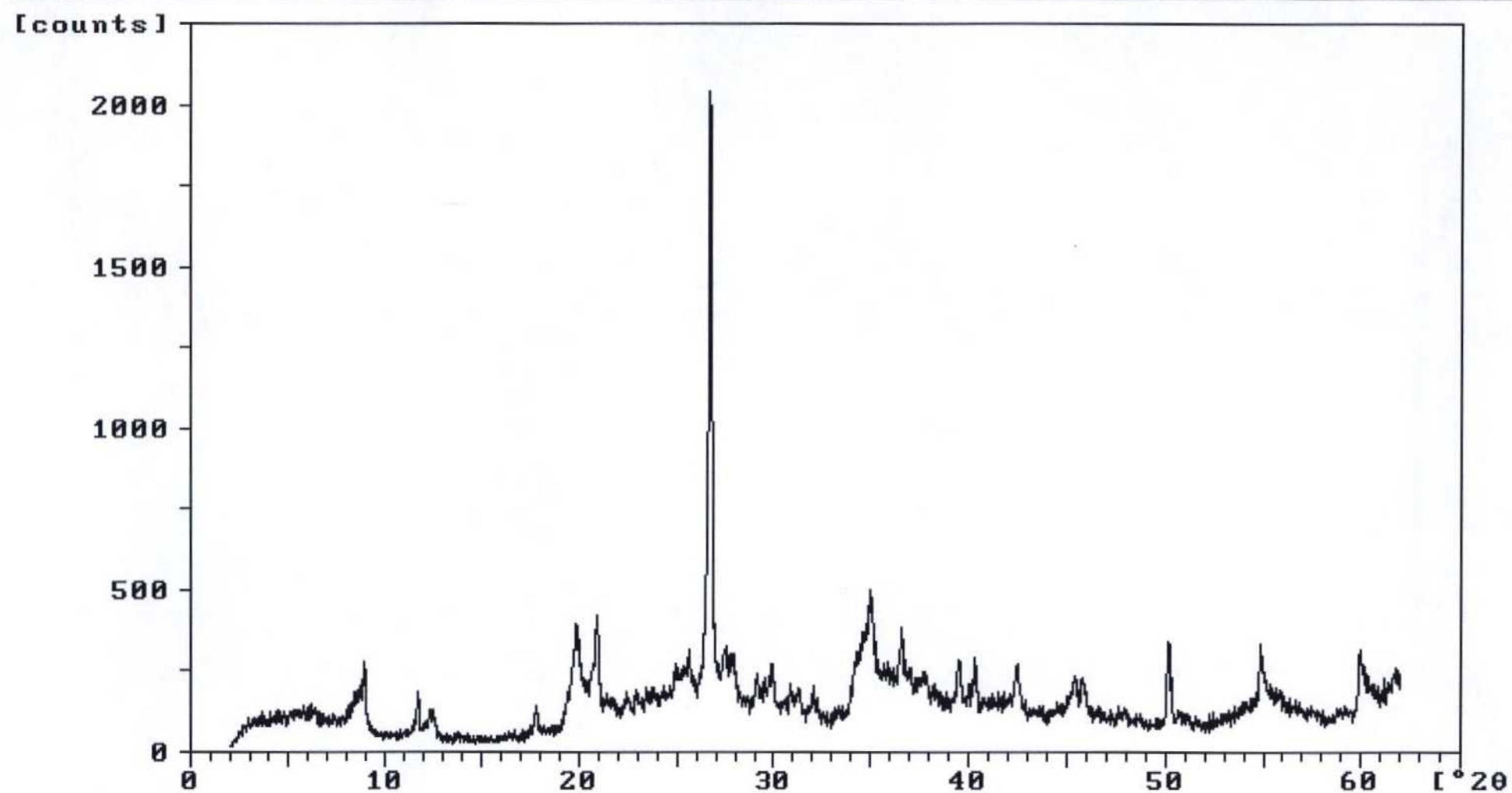
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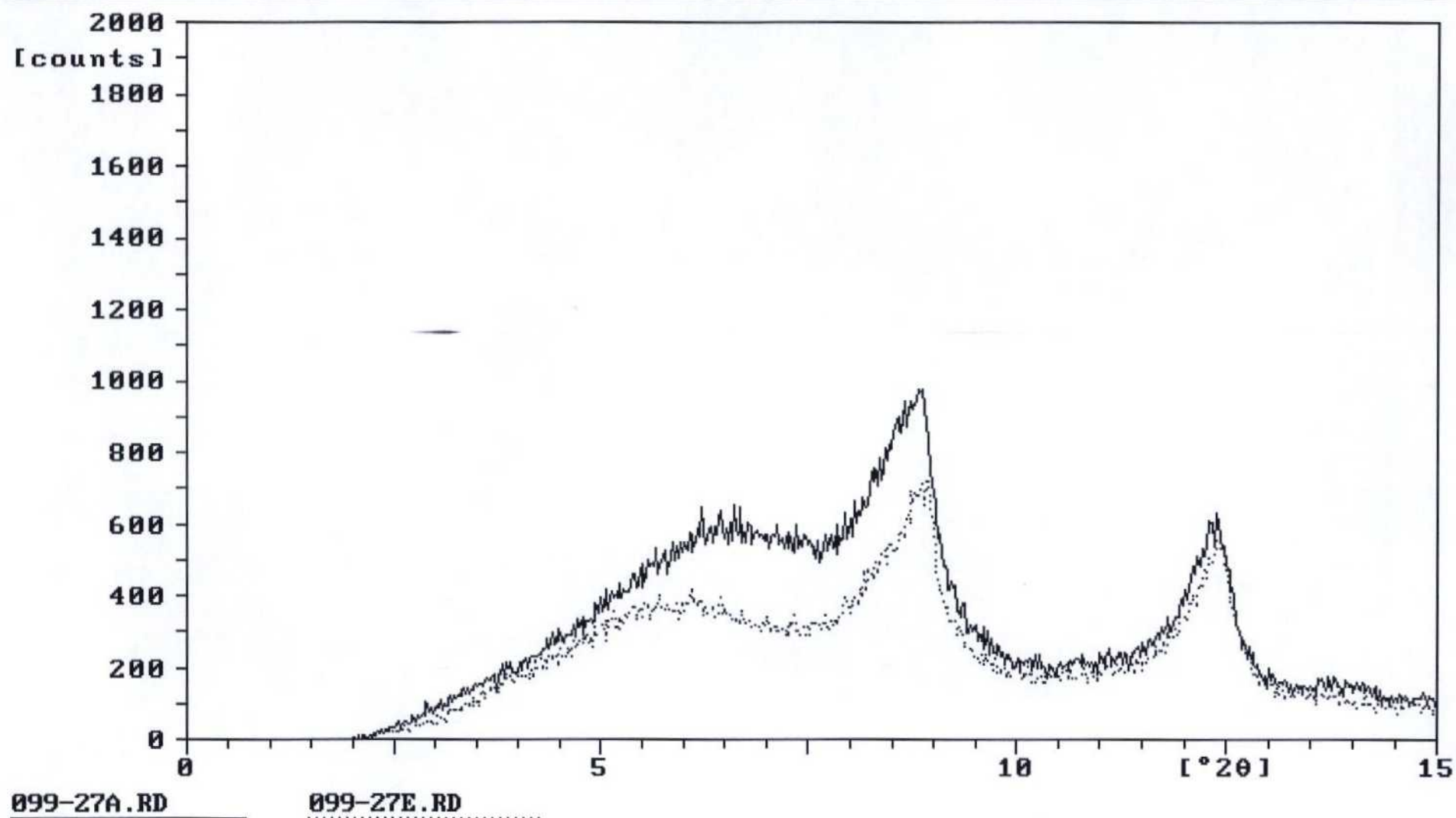
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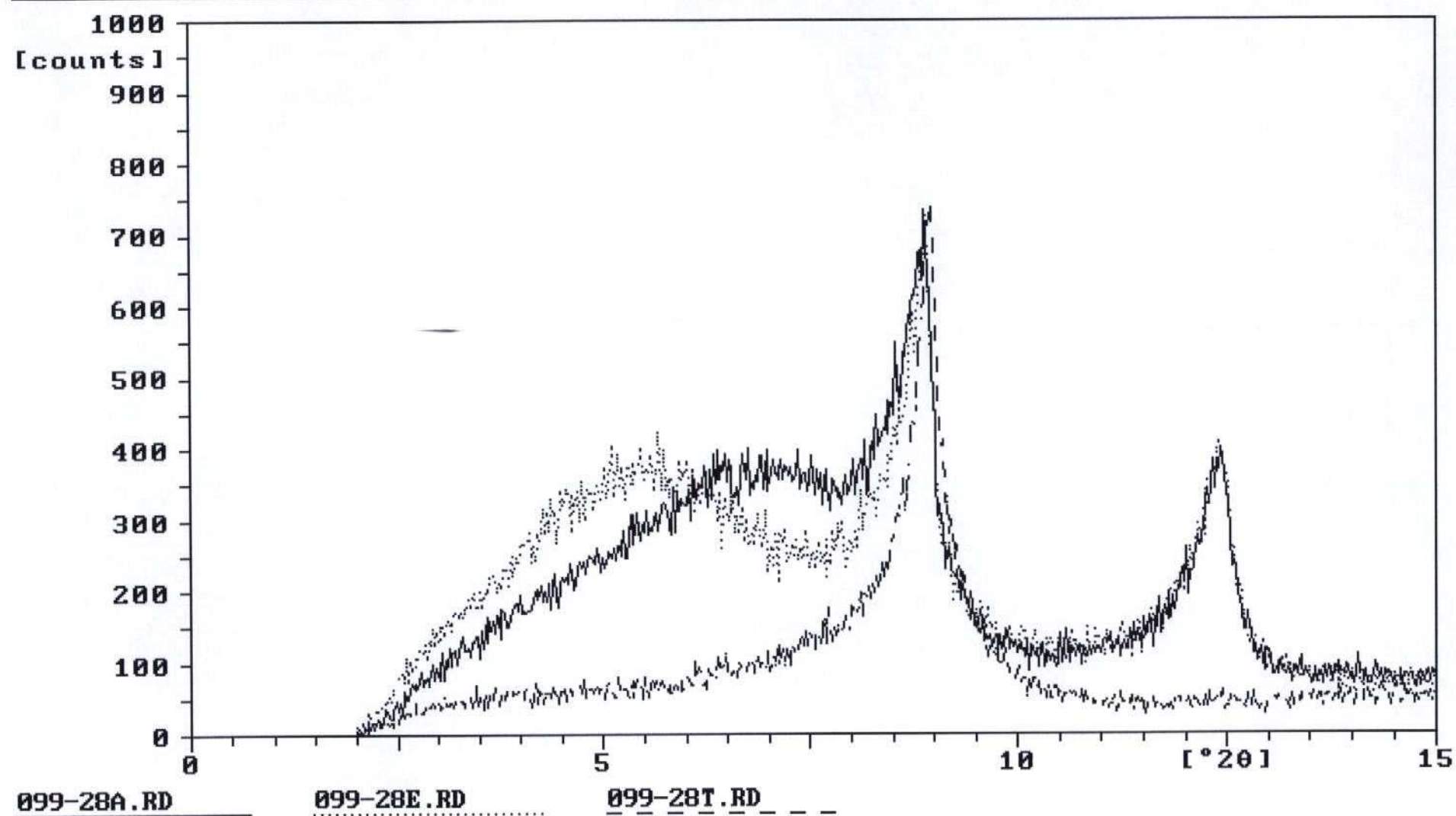
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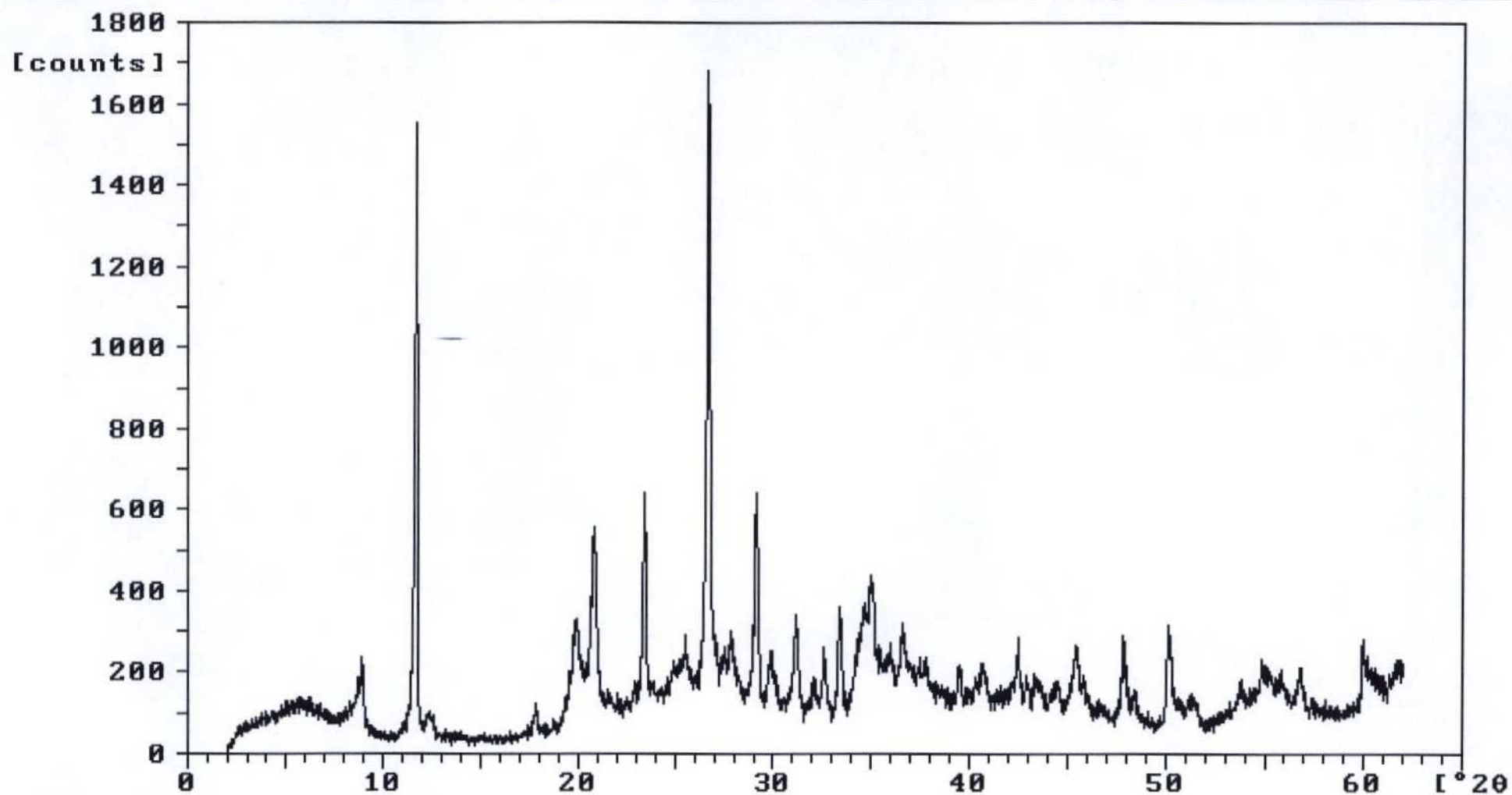
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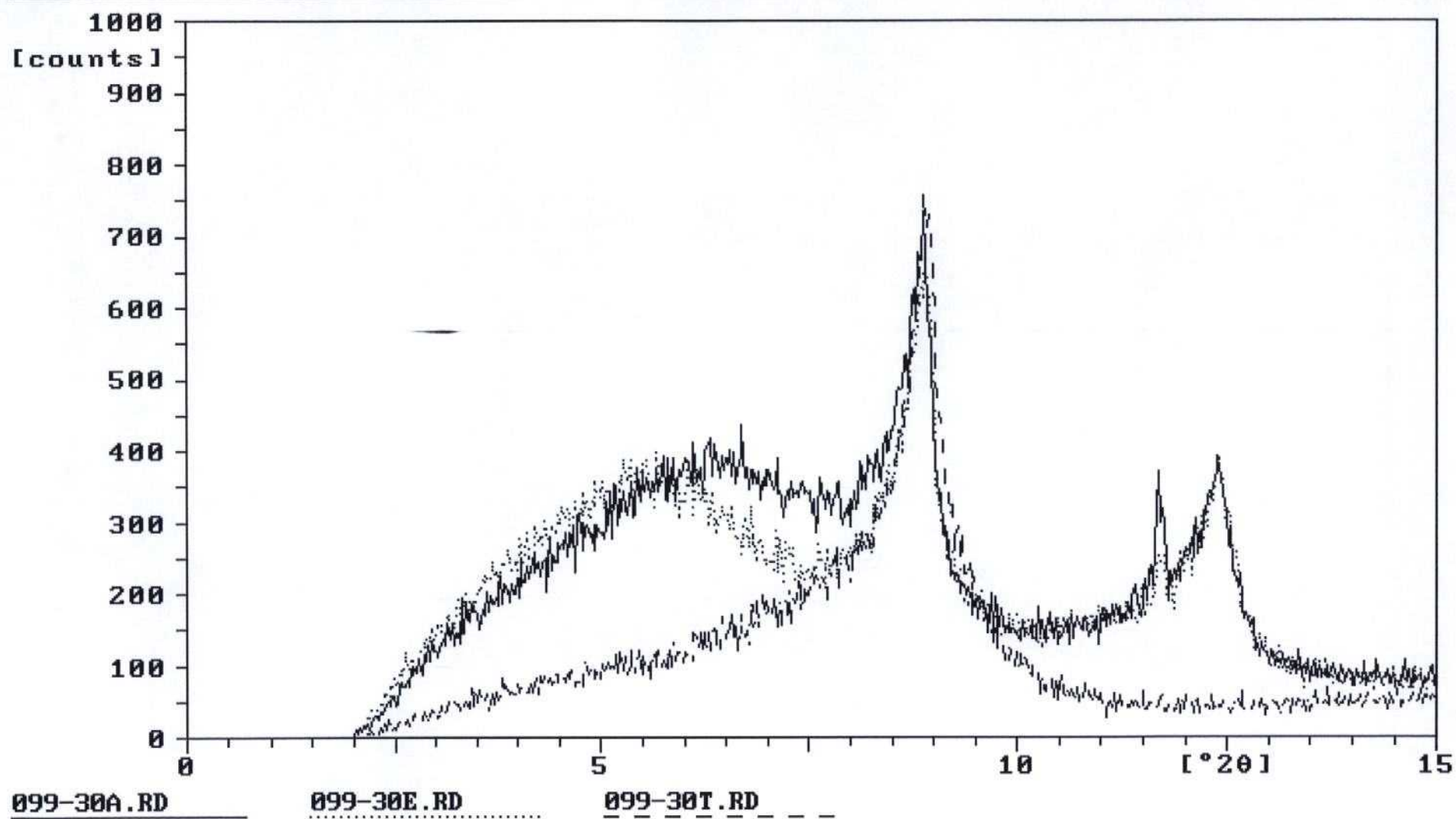
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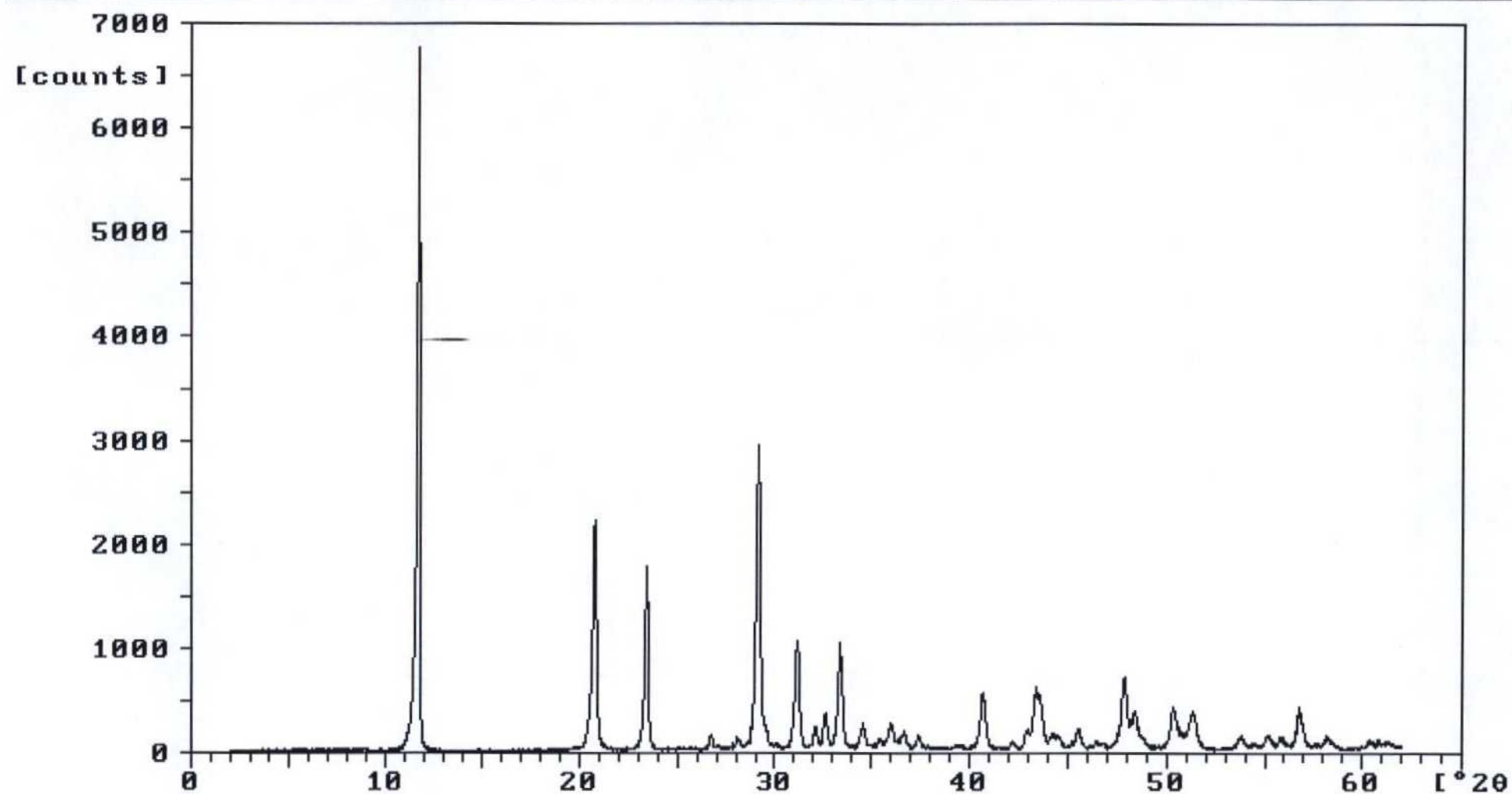
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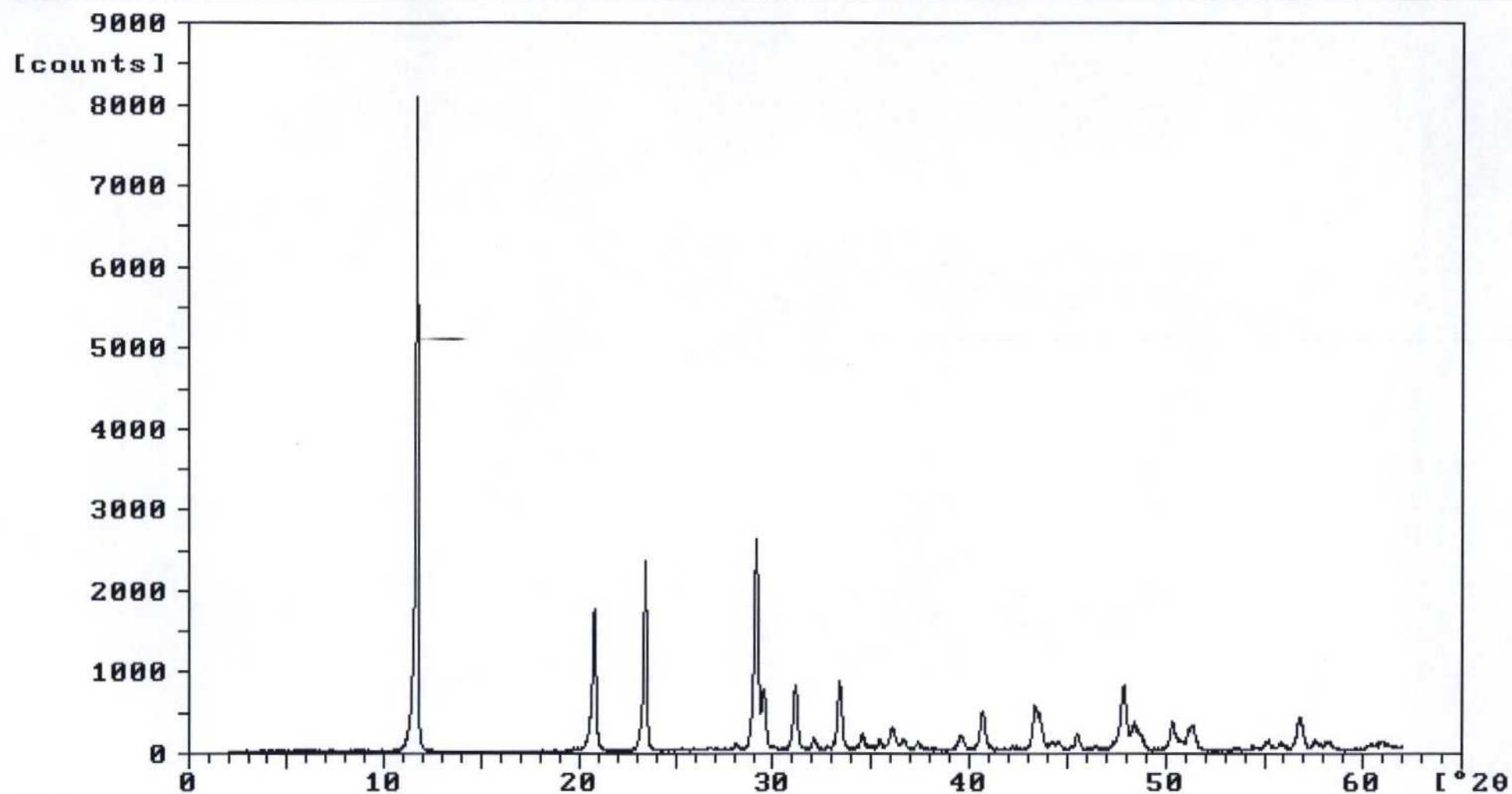
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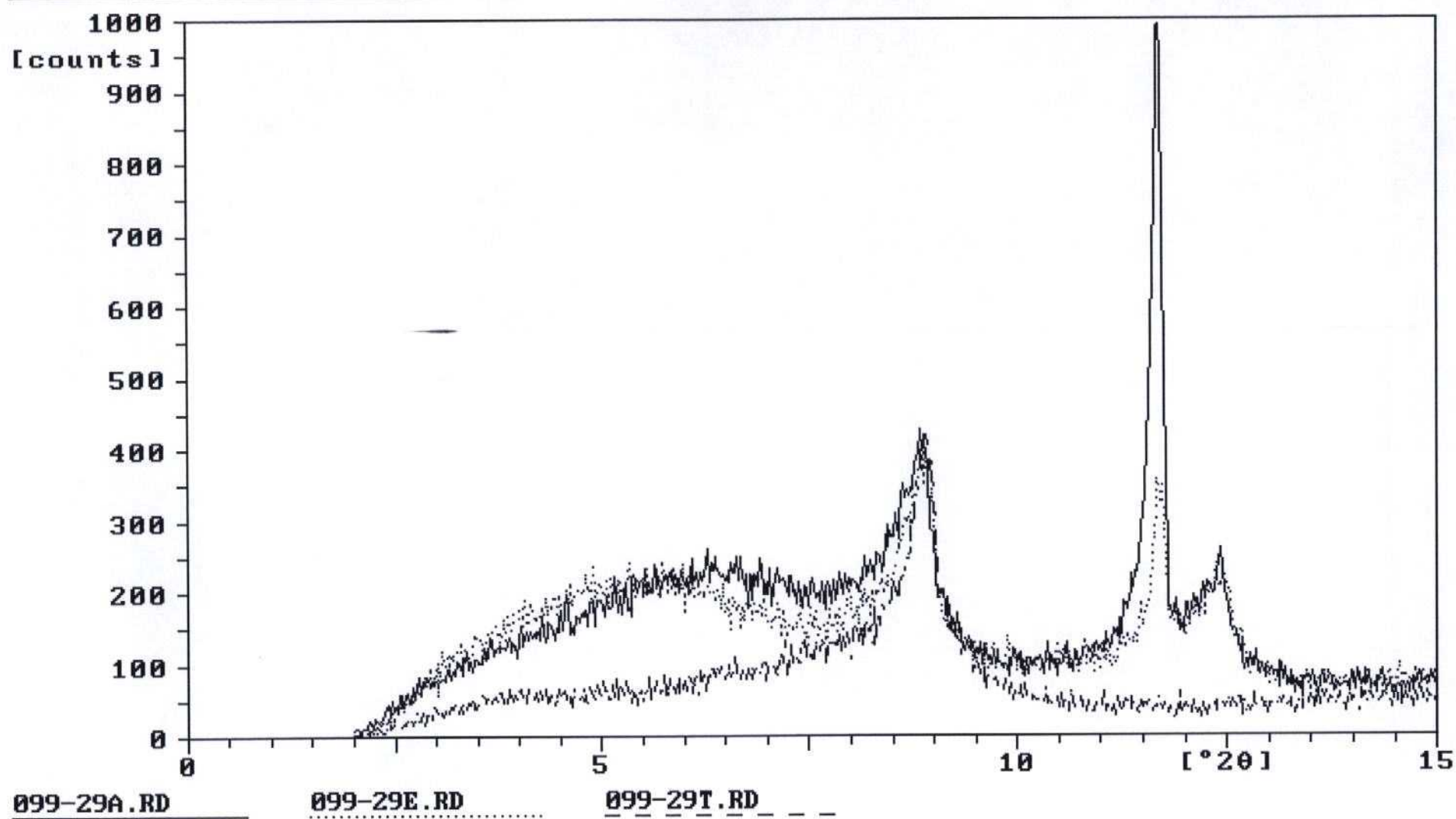
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98099-32.RD

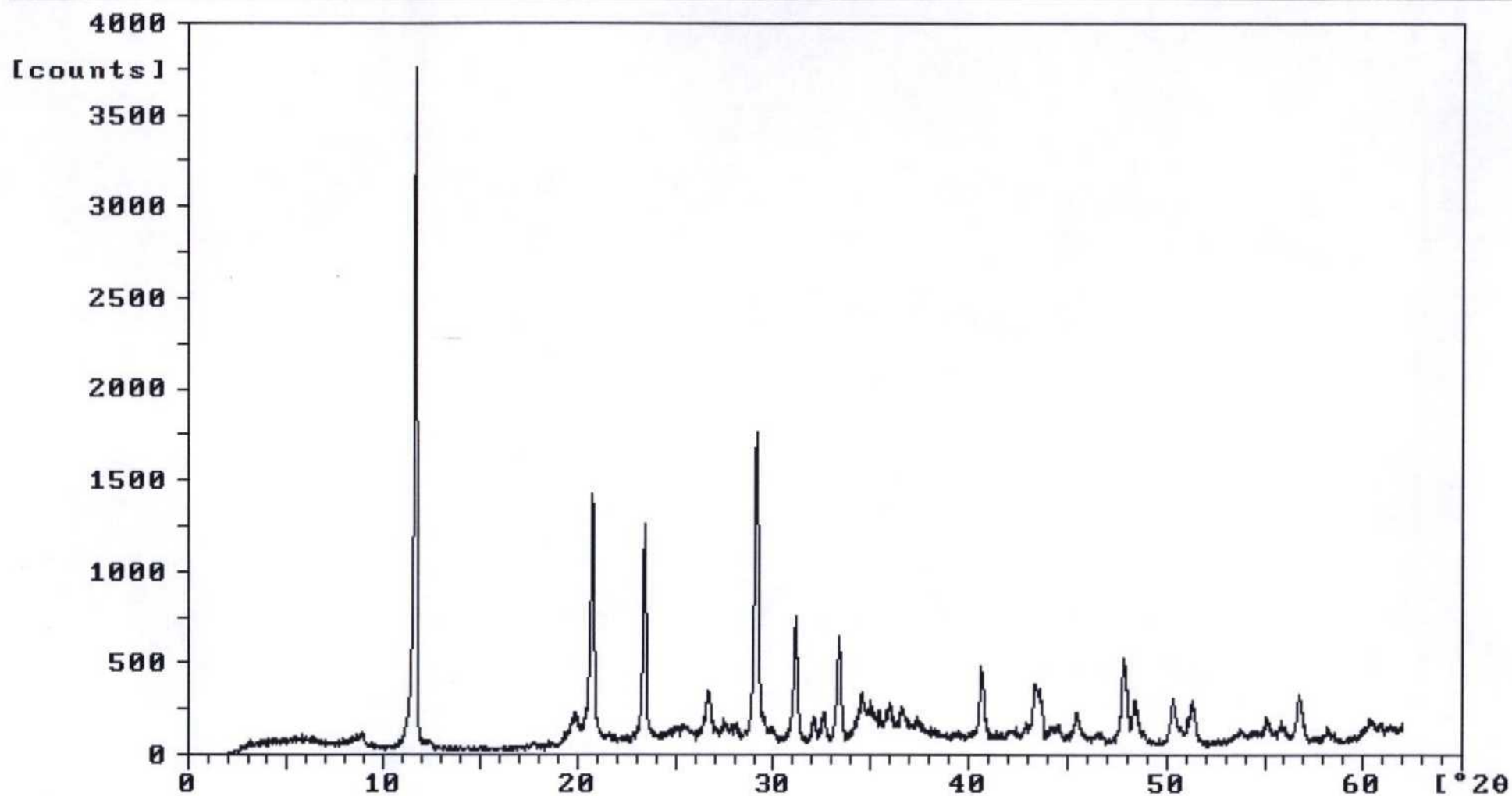
Sample identification: 0110 AGREG

25-May-1998 9:42



Sample identification: 0110

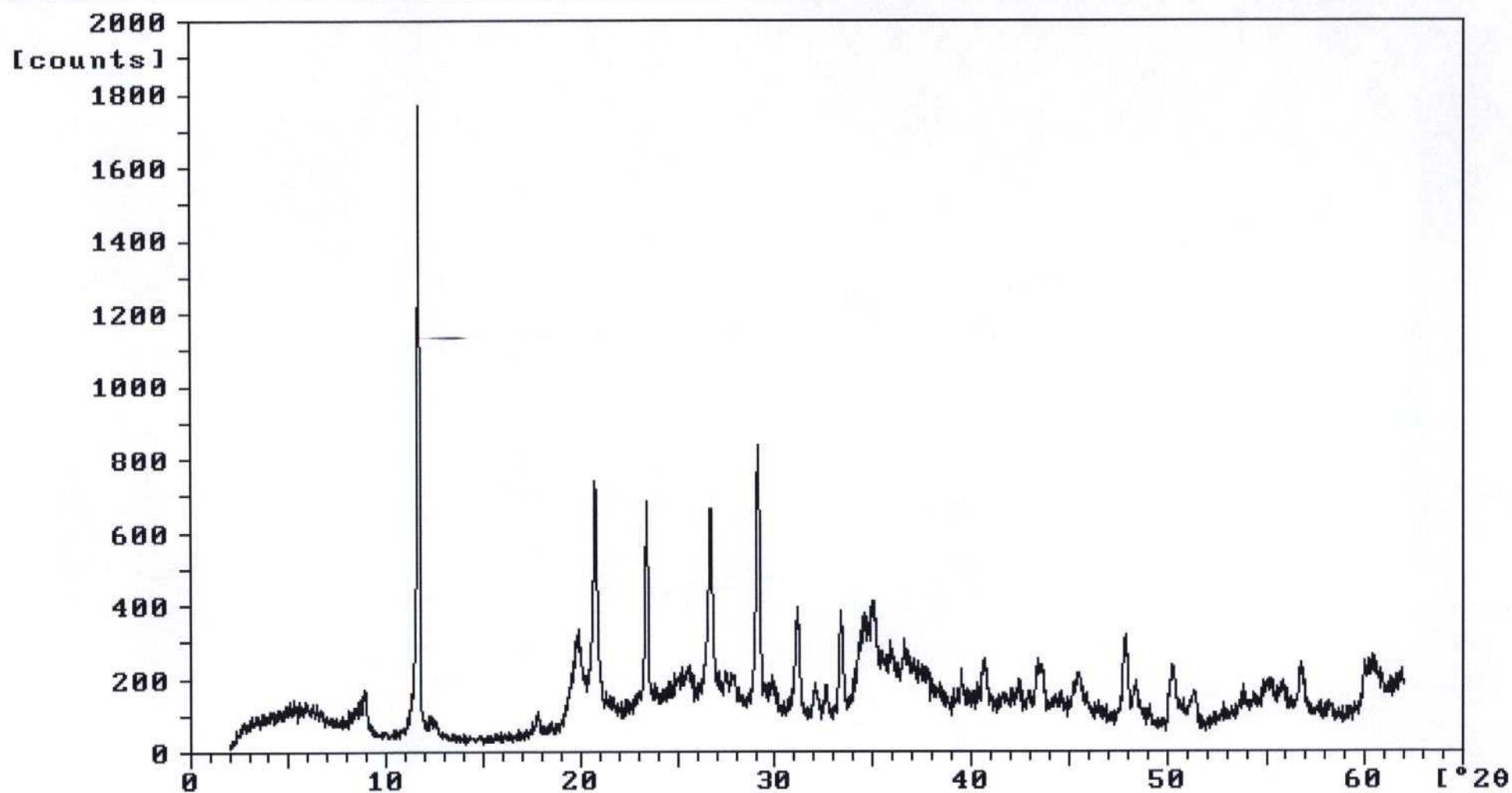
25-May-1998 9:29



98099-29.RD

Sample identification: 0111

25-May-1998 9:30



98099-30.RD